

# REQUEST FOR PROPOSALS

FOR

## D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 WARTSILA OVERHAUL/MAINTENANCE SERVICES

CITY OF ALEXANDRIA, LOUISIANA  
(OWNER)

MAYOR  
JACQUES M. ROY

COUNCIL MEMBERS  
REDDEX WASHINGTON  
GARY JOHNSON  
CYNTHIA PERRY  
LIZZIE FELTER  
CHARLES "CHUCK" FOWLER, JR.  
LEE RUBIN  
JAMES "JIM" VILLARD

CITY COUNCIL CLERK  
DONNA JONES

DIRECTOR OF UTILITIES  
MARCUS CONNELLA

July 2024



PAN AMERICAN ENGINEERS, LLC  
P.O. BOX 8599 (71306)  
1717 JACKSON STREET (71301)  
ALEXANDRIA, LOUISIANA  
(318)473-2100  
PAE Job No. 12741

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

**TABLE OF CONTENTS**

I.	Advertisement for Request for Proposals/Invitation to Bid.....	2
11.	Proposal Cover Sheet .....	4
III.	Proposal Form .....	6
IV.	Proposer's Background and Capabilities.....	12
V.	General Conditions .....	17
VI.	Proposal Specifications.....	22
VII.	Overhaul Parts List. ....	31

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

**I. ADVERTISEMENT FOR REQUEST**  
**FOR PROPOSALS/INVITATION TO BID**

**L ADVERTISEMENT FOR REQUEST FOR PROPOSALS/INVITATION TO BID**

CITY OF ALEXANDRIA, LOUISIANA  
PURCHASING DEPARTMENT

**BID # 2492 D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -  
WARTSILA OVERHAUL/MAINTENANCE SERVICES**

Separate sealed proposals for D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 - WARTSILA OVERHAUL/MAINTENANCE SERVICES, will be received by the CITY OF ALEXANDRIA at the CITY COUNCIL MEETING CHAMBERS, ALEXANDRIA CITY HALL, ALEXANDRIA, LOUISIANA, until 10:00 AM CST CDT, TUESDAY, September 3, 2024, and then at said office publicly opened and read aloud.

Complete proposal packet and specifications may be obtained at the City of Alexandria's website, [www.cityofalexandria.com](http://www.cityofalexandria.com) under the heading "Business", and drop down to "RFP/RFQIRFI/B/DS". There is no charge to download bid documents from the City's website.

Pursuant to LA RS. 38:2212.1 B.(4)(a), vendors have the option to submit their bids electronically. Please find bid related documents and place electronic bids at [www.centralbidding.com](http://www.centralbidding.com). For questions regarding the electronic bidding process, please call Central Bidding at 225-810-4814.

The City will hold a Non-Mandatory Pre-Proposal Conference on-site to allow potential proposers the opportunity to evaluate existing site conditions and work setting. The Pre-Proposal Conference will be held at the Power Plant, 1011 North 3<sup>rd</sup> Street, Alexandria, LA 71301 on **Wednesday, August 14, 2024 at 11:00 a.m.**

Questions and/or request for clarification of bid specifications are to be in written form only, either mailed or emailed to Thomas C. David, Jr., Pan American Engineers, LLC, 1717 Jackson Street, Alexandria, LA 71301; P.O. Box 8599, Alexandria, LA 71306; Emailed to: [Tom@paealex.com](mailto:Tom@paealex.com) and must be received within ten (10) calendar days of the scheduled receipt of proposals.

**Address for Postal Delivery:**

City of Alexandria  
Donna Jones, City Clerk  
PO Box 71  
Alexandria, LA 71309-0071

**Address for Courier or  
Overnight Delivery:**

City of Alexandria  
Donna Jones, City Clerk  
915 Third Street, 1<sup>st</sup> Floor  
Alexandria, LA 71301  
Phone: 318-449-5047

**Address for Electronic  
Bid Submission:**

[www.centralbidding.com](http://www.centralbidding.com)

Phone: 225-810-4814

PLEASE PUBLISH THREE (3) TIMES:

July 26, 2024

August 2, 2024

August 9, 2024

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

**II. PROPOSAL COVER SHEET**

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**



Wilma Kelly  
Purchasing Manager

**City of Alexandria**  
Purchasing Department  
P. O. Box 71  
Alexandria, Louisiana  
71309-0071



Office: (318) 441-6180  
Fax: (318) 441-6185

**II. PROPOSAL COVER SHEET**

Sealed bids will be received until **10:00 AM, Tuesday, September 3, 2024**, and publicly opened in the Council Chambers or Council Committee Room.

City of Alexandria Bid #2492 \_  
Page: 1 of 1  
Date Specifications Prepared: 07/05/2024

Bid Bond Requirements: A bid bond or check for **NIA%** of the total amount of bid.

**Please file bid with the following:**  
**Donna Jones, City Clerk**  
**City of Alexandria**  
**915 Third Street**  
**P. O. Box 71**  
**Alexandria, LA 71309-0071**  
**Phone: 318-449-5047**

Performance Bond Requirements: In the event bid is accepted, a performance bond shall be required in the amount of **NIA%**.

It is the intent of the City of Alexandria, Louisiana to secure price proposals for services related to the Overhaul/Maintenance for three (3) Wartsila Engines at the City's D.G. Hunter Electrical Power Plant Units 5, 6, & 9.

***Completed proposal should be returned as issued by the City of Alexandria with ALL PAGES intact and all columns filled in. Incomplete columns or missing pages, to include addendum pages, may result in the proposer's entire proposal being rejected.***

Questions and/or clarifications of the proposal and specification must be submitted in written form only, either mailed, faxed, or e-mailed to the attention of Thomas C. David, Jr., Pan American Engineers, LLC, 1717 Jackson Street, Alexandria, LA 71301; P.O. Box 8599, Alexandria, LA 71306; Fax: (318) 473-2275; Email: tom@paealex.com and must be received within 10 calendar days of the scheduled receipt of proposals.

**Bidder Information:**

Addenda Acknowledged: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Telephone \_\_\_\_\_ Fax#: \_\_\_\_\_  
#:( ) ..... ( ) \_\_\_\_\_

Authorized Printed Name and Title: \_\_\_\_\_

Authorized Signature: .....

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

**III.**      **PROPOSAL FORM**

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

**III. PROPOSAL FORM**

This service work will take place at the following location:  
 City of Alexandria D.G. Hunter Electrical Power Plant, 1011 North 3rd Street, Alexandria, LA 71301

**A. ON-SITE MAINTENANCE SERVICES AND OFF-SITE SHOP WORK**

DESCRIPTION:				
REF. NO. 1	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	LUMP SUM OR UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
Mobilization and De-Mobilization	Job	Lump Sum	N/A	\$

DESCRIPTION:				
REF. NO. 2	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	LUMP SUM OR UNIT PRICE EXTENSION <i>...(Quantity times Unit Price)</i>
<b>Engine 5 - Combined 8,000, 12,000, and 16,000 Running Hours On-Site Maintenance Services and Off-Site Shop Work</b>  <u>Engine Type:</u> PME264151 Wartsila 20V34SG  <u>Fee Structure:</u> Lump Sum fee shall include all field service labor expenses, cylinder head overhauls, cylinder liner overhauls, turbo charger inspection and overhaul, charge air cooler overhaul, lube oil cooler overhaul, main bearing replacements, cam shaft bearings, turbo crating, air-fare, hotel, car/rental, per diem and other job related incidental costs.	Job	Lump Sum	N/A	\$



**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

**III. PROPOSAL FORM**

This service work will take place at the following location:  
 City of Alexandria D.G. Hunter Electrical Power Plant, 1011 North 3rd Street, Alexandria, LA 71301

DESCRIPTION:				
REF. NO. 3	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	LUMP SUM OR UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
<p><b>Engine 6 - Combined 8,000, 12,000, and 16,000 Running Hours On-Site Maintenance Services and Off-Site Shop Work</b></p> <p><u>Engine Type:</u>                      PAAE264151 Wartsila 20V34SG</p> <p>Fee Structure:                      Lump Sum fee shall include all field service labor expenses, cylinder head overhauls, cylinder liner overhauls, turbo charger inspection and overhaul, charge air cooler overhaul, lube oil cooler overhaul, main bearing replacements, cam shaft bearings, turbo crating, air-fare, hotel, car/rental, per diem and other job related incidental costs.</p>	Job	Lump Sum	<b>N/A</b>	\$

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

**III. PROPOSAL FORM**

This service work will take place at the following location:  
City of Alexandria D.G. Hunter Electrical Power Plant, 1011 North 3rd Street, Alexandria, LA 71301

DESCRIPTION:				
REF. NO. 4	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	LUMP SUM OR UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
<p><b>Engine 9 - Combined 8,000, 12,000, and 16,000 Running Hours On-Site Maintenance Services and Off-Site Shop Work</b></p> <p><u>Engine Type:</u>  PAAE264151 Wartsila 20V34SG</p> <p>Fee Structure:  Lump Sum fee shall include all field service labor expenses, cylinder head overhauls, cylinder liner overhauls, turbo charger inspection and overhaul, charge air cooler overhaul, lube oil cooler overhaul, main bearing replacements, cam shaft bearings, turbo crating, air-fare, hotel, car/rental, per diem and other job related incidental costs.</p>	Job	Lump Sum	N/A	\$

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

**III. PROPOSAL FORM**

This service work will take place at the following location:  
City of Alexandria D.G. Hunter Electrical Power Plant, 1011 North 3rd Street, Alexandria, LA 71301

**B. NON-BASELINE REPAIR CASH ALLOWANCES**

DESCRIPTION:				
REF. NO. 5	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	LUMP SUM OR UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
<p><b>Engine 5 Non-Baseline Repair Work</b></p> <p>General: Owner authorized non-baseline repair work shall include the total cost of each specific repair item. Expenses for approved repairs will be charged against the stated allowance amount.</p> <p><u>Pricing Structure:</u> Pricing for authorized non-baseline repairs shall be scoped and a lump-sum price developed for owner review and approval. Repair cost shall include labor, parts, shipping, packaging, and other related incidental costs.</p>	Job	Allowance	<b>N/A</b>	\$100,000.00

DESCRIPTION:				
REF. NO. 6	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	LUMP SUM OR UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
<p><b>Engine 6 Non-Baseline Repair Work</b></p> <p>General: Owner authorized non-baseline repair work shall include the total cost of each specific repair item. Expenses for approved repairs will be charged against the stated allowance amount.</p> <p><u>Pricing Structure:</u> Pricing for authorized non-baseline repairs shall be scoped and a lump-sum price developed for owner review and approval. Repair cost shall include labor, parts, shipping, packaging, and other related incidental costs.</p>	Job	Allowance	<b>N/A</b>	\$100,000.00

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

**III. PROPOSAL FORM**

This service work will take place at the following location:  
 City of Alexandria D.G. Hunter Electrical Power Plant, 1011 North 3rd Street, Alexandria, LA 71301

DESCRIPTION:	QUANTITY:	UNIT OF... MEASURE:	UNIT PRICE	LUMP SUM OR UNIT PRICE EXTENSION <i>(Quantity times Unit Price) + i;</i>
<b>Engine 9 Non-Baseline Repair Work</b>				
General: Owner authorized non-baseline repair work shall include the total cost of each specific repair item. Expenses for approved repairs will be charged against the stated allowance amount.				
Pricing Structure: Pricing for authorized non-baseline repairs shall be scoped and a lump-sum price developed for owner review and approval. Repair cost shall include labor, parts, shipping, packaging, and other related incidental costs.				
	Job	Allowance	N/A	\$100,000.00
<b>TOTAL OF REFERENCE NO's 1-7 (Including Stated Allowances)</b>				<b>\$</b>

**C. ADDITIONAL OWNER REQUESTED SERVICE WORK**

Hourly Rates Shall be Provided for Regular and Overtime for Owner Requested Additional Services:

	NORMAL RATE	OVERTIME RATE
Service Technician	\$	\$
Service Engineer	\$	\$
Superintendent	\$	\$

CITY OF ALEXANDRIA, LOUISIANA  
D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9  
WARTSILA OVERHAUUMAINTEANCE SERVICES

IV. PROPOSER'S BACKGROUND AND  
CAPABILITIES

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

---

**IV. PROPOSERS BACKGROUND AND CAPABILITIES**

1. Proposer's Official Business Name and Corporate Structure:

---

---

---

---

---

---

2. Proposer's Headquarters' Location and Other Office Locations' Addresses:

---

---

---

---

---

---

3. Identification of Proposer's Project Lead Along with Title And Bio:  
(Attach Biographical Information In Separate Document)

---

---

---

---

---

---

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

---

4. Proposer's Expected Project Team Members and Bios:  
(Attach Biographical Information In Separate Document)

---

---

---

---

---

---

---

---

---

---

5. Location of Proposer's In-House Maintenance Operation:  
(Attach Narrative In-House Maintenance Expertise In Separate Document)

6. Description of Proposer's Capabilities Relevant to this Project.  
a. List of Similar Projects Completed (At Least Ten (10) Engines).

---

---

---

---

---

---

---

---

---

---





**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

---

9. Location of Shops or Other Facilities Where Off-Site Refurbishment Work Would Be Accomplished.

---

---

---

---

---

---

10. Listing and Pricing of Anticipated Spare Parts in Addition to Those Listed in Attachment A that Would Likely Be Needed for the Overhaul / Maintenance Services of Units 5, 6, & 9. (Add Additional Pages as Necessary.)

---

---

---

---

---

---

---

---

---

---

11. Provide Non-Binding Sample Contract for Proposed Services.  
(Attach Sample Contract in Separate Document).

**CITY OF ALEXANDRIA, LOUISIANA**  
**O.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

**V. GENERAL CONDITIONS FOR**  
**PROPOSERS**

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUMMAINTENANCE SERVICES**

---

**V. GENERAL CONDITIONS FOR PROPOSERS**  
**PLEASE READ CAREFULLY**

1. Pursuant to LA R.S 38:2212.1. C.(1)(2), any manufacturer's preference in this proposal is descriptive, but non-restrictive, and is used only to indicate minimum requirement for type, grade and quality unless otherwise specified.
2. Each proposer shall submit his proposal on the proposal form furnished by the City of Alexandria Purchasing Department. The complete proposal package must be returned as issued by the City with all pages intact and all specification response columns filled in. Incomplete columns or missing pages, to include addendum pages, shall result in the vendor's entire proposal package being rejected.
3. Literature, brochures, and other related paperwork attached to the proposal should be identified with the name of the proposer.
4. In case of a mathematical discrepancy between unit price and extensions, the unit price shall prevail.
5. The City of Alexandria reserves the right to award by item or by total proposal, unless otherwise specified in the proposal specifications.
6. All erasures or corrections on the proposal form must be initialed and the City of Alexandria may rely on the apparent authority represented by the initials.
7. The City of Alexandria reserves the right to reject for cause any and all proposals or parts of proposals, or accept proposals most beneficial to the City.
8. Any proposal submitted which contains additions, conditional or alternate proposals, or irregularities which may make the proposal incomplete, indefinite, or ambiguous as to its meaning, thus requiring clarification after the specified date and time of proposal opening shall be rejected.
9. Proposals shall be opened publicly in the City Council Chambers or Council Committee Room.
10. The City of Alexandria shall schedule for payment the invoices for articles or services purchased under this proposal within thirty (30) days after due and proper delivery accompanied by invoice.
11. The City of Alexandria is exempt from all sales taxes or value added taxes. A sales tax exempt form shall be furnished by the City of Alexandria Purchasing Department to the successful proposer, if requested.
12. Proposer(s) awarded item(s) by the City of Alexandria shall be responsible for supplying all products at the awarded price(s). Failure may result in the City's cancellation of the remaining items awarded.

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

---

13. Regarding Service Contracts and Procurement Contracts, the terms of the contract shall be binding upon any and all parties involved until goods and supplies are delivered, services have been rendered, and/or work has been completed and accepted by the Mayor on behalf of the City of Alexandria and all payments required to be made to the Contractor have been made. However, a contract may be terminated under any and all of the following conditions:

- (a) By mutual agreement and consent of either party upon thirty (30) days written notice to the other party;
- (b) By the Mayor, on behalf of the City of Alexandria, as a consequence of the failure of the Contractor to comply with the terms and conditions of the contract or the progress or quality of work to be performed in a satisfactory manner, proper allowance being made for circumstances beyond the control of the Contractor; or
- (c) By satisfactory completion of all services and obligations described in the contract.

If the contract is terminated for any of the terms and conditions authorized in sub-paragraph (b) above, Contractor shall be formally notified in writing by the City of Alexandria Purchasing Department by means of certified mail informing him of cancellation of the contract, giving specific reasons for said cancellation. Contractor shall have the right to appeal to the City Council within ten (10) days from the date that said notification is placed in the U.S. Mail. Contractor's appeal shall be accomplished by means of a letter addressed to the City Council and delivered to the City Clerk, stating that an appeal to the decision of cancellation is desired. The City Council shall thereafter hold a hearing on the appeal, giving all parties the opportunity to present any and all evidence concerning the decision of cancellation. After hearing the appeal, the city Council may, by a majority vote, sustain, modify, or reverse the findings for said decision and shall provide, if requested by Contractor, a written determination of its findings.

14. Insurance: The proposer shall at its own cost provide for and maintain comprehensive insurance coverage to protect its own property and personnel. The proposer shall provide a waiver of all rights of recourse and subrogation against the City from its insurers as well as, indemnify and hold the City harmless for all claims of the City's insurers.

Minimum Scope and Limits of Insurance:

- Worker's Compensation

Worker's Compensation insurance shall be in compliance with the Worker's Compensation law of the Contractor's headquarters. Employers Liability is included with a minimum limit of \$1,000,000 per accident/per disease/per employee. If Work is to be performed over water and involves maritime exposure, applicable LHWCA, Jones Act or other maritime law coverage shall be included. A.M. Best's insurance company rating requirement may be waived for Worker's compensation coverage only. To the

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

---

fullest allowed by law, the insurer shall agree to waive all rights of subrogation against the Owner, its officers, agents, employees and volunteers for losses arising from Work performed by the Contractor for the Owner.

- Commercial General Liability

Commercial General Liability insurance, including Personal and Advertising Injury Liability and Products and Completed Operations Liability, shall have a minimum limit per occurrence totaling \$2,000,000 and a per project aggregate of \$4,000,000. The Insurance Services Office (ISO) Commercial General Liability occurrence coverage form CG 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. Claims-made form is unacceptable. The Owner, its officers, agents, employees and volunteers are to be added as additional insureds as respects liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor, premises owned, occupied or used by the Contractor. The Engineer shall also be named as an additional insured.

- Automobile Liability

Automobile Liability Insurance shall have a minimum combined single limit per occurrence of \$1,000,000. ISO form number CA 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. This insurance shall include third-party bodily injury and property damage liability for owned, hired and non-owned automobiles.

- All Coverages

All policies must be endorsed to require 30 days written notice of cancellation to the Owner. Ten-day written notice of cancellation is acceptable for non-payment of premium. Notifications shall comply with the standard cancellation provisions in the Contractor's policy. In addition, Contractor is required to notify Owner of policy cancellations or reductions in limits.

- Acceptability of Insurers

All required insurance shall be provided by a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located. Insurance shall be placed with insurers with an A.M. Best's rating of **A-: VI or higher**. This rating requirement may be waived for Workers' compensation coverage.

If at any time an insurer issuing any such policy does not meet the minimum A.M. Best rating, the Contractor shall obtain a policy with an insurer that meets the A.M. Best rating and shall submit another certificate of insurance within 30 days.

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

---

- Waiver of Subrogation

To the extent, damages are covered by and recovery is made against property insurance policies covering the Work, the Owner and Engineer waive all rights for the amount of such recovery against each other and against the contractors, consultants, agents, and employees of the other for damages, except such rights as they may have to the amounts actually recovered from the proceeds of such insurance as set forth herein or by separate work/service order. The Owner and the Engineer, as appropriate, shall require of the contractors, consultants, agents, and employees of any of them, similar waivers in favor of the other parties enumerated herein.

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

**VI. PROPOSAL SPECIFICATIONS**

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 •**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

---

**VI. PROPOSAL SPECIFICATIONS**

1. Introduction:

A. The City of Alexandria, Louisiana (COA) owns and operates seven (7) Wartsila 20V34SG Reciprocating Internal Combustion Engine (RICE) generator sets (Units 5-11) at its D. G. Hunter Plant located at 1011 North 3<sup>rd</sup> Street, Alexandria, Louisiana 71909. Each of the seven engines has exceeded 16,000 hours of operation. The COA has decided to combine the 8,000, 12,000, and 16,000 Running Hours Maintenance Service described in the Wartsila Operations and Maintenance (O&M) manuals under a two-phase program of overhaul and maintenance services. The work will be undertaken in two (2) phases; three (3) units this phase; four (4) units in the subsequent phase.

B. The COA is seeking overhaul services for three (3) of the seven (7) units from qualified and experienced vendors familiar with Wartsila 20V34SG RICE generator sets. Overhaul work is to be performed on three selected engines from September 1, 2024 through February 28, 2025 under a single mobilization/demobilization with no more than two (2) engines out of service at the same time. The COA anticipates completing inspections on the remaining four (4) engines one year later (September 2025 through February 2026). Only the first three engines are covered by this RFP.

C. The COA will provide two (2) mechanical technicians, one (1) electrical technician and one (1) instrument technician to assist vender technicians and engineers in the performance of overhaul work. Lock-out/tag-out (LOTO) functions will be coordinated through COA operations personnel.

D. The COA will remove from service engines and isolate such to the satisfaction of proposer's field service personnel.

E. The COA will drain cooling water of engine in preparation for service work.

F. The Service Provider will provide engine specific tools up to date in terms of calibration, to support the overhaul effort.

G. The COA will provide miscellaneous consumables to support the overhaul effort.

H. The COA will provide spare parts to support the On-Site and Workshop Service work. A list of available parts is provided as Section VII. Overhaul Parts List.

2. Scheduled Time Frame For Overhaul Services: Six (6) calendar months; September 1, 2024 through February 28, 2025. Mobilization may take place before the beginning, and demobilization after the end, of the specified period, but designated units must remain in service until September 1, 2024.

3. Maximum Number Of Engines Taken Out Of Service At One Time: No more than two (2) engines shall be out of service at the same time without written authorization from the COA.



**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

---

4. **Safety:** Proposers field service personnel shall have authority to stop work if an unsafe or hazardous condition is observed. Proposers field service personnel shall immediately notify COA Supervisor personnel of noted safety concerns for resolution.
  
5. **Criteria for Overhaul Work:** All overhaul work shall be conducted in accordance with Wartsila recommended practices and procedures for the specified engine.
  
6. **Proposer Qualifications:** To be qualified to prosper, Proposer must have performed 8,000, 12,000 and 16,000 Running Hours Maintenance Service on at least ten (10) Wartsila 20V34 SG engines (documentation requirements listed below) and have references from at least three separate owners.
  
7. **Proposers' Background Information and Capabilities:**
  - A. Proposers are to provide the following information related to the Proposers' background and capabilities as listed below. It is critical that Proposers provide all the requested detail in their proposal to allow the COA to complete a fair review of each Proposers' capabilities to successfully perform the overhaul activities described herein using Form provided in Section IV.
    1. Proposer's official business name and corporate structure.
    2. Proposer's headquarters' location and other office locations' addresses.
    3. Identification of Proposer's Project lead along with title and biography.
    4. Proposer's expected Project team members and biographies.
    5. Description and location of Proposer's in-house maintenance expertise.
    6. Description of Proposer's capabilities relevant to this Project (at least ten (10) Engines).
      - a. List of similar projects completed (at least five).
      - b. References (at least three).
    7. Details on Proposer's project safety performance record.
  
8. **Engine Routine Maintenance:** The Wartsila Operation and Maintenance Manual Routine Operational inspections will be performed by Owner's maintenance personnel as part of routine operational procedures.
  
9. **Scope of Maintenance Service:** It is acknowledged that as a result of the operational inspections, repairs and shop work may be required for each engine as related to items beyond the baseline maintenance, overhaul, and typical off-site shop work specified below and noted on the proposal form. For purposes of Owner contract budgeting, a cash allowance amount totaling \$100,000 per engine has been noted on the Proposal Form for repair work not typical to the overhaul

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUUMAIINTENANCE SERVICES**

and maintenance effort. Approved charges for the repair work will be charged against the stated allowance for each engine. In the event that the cost for authorized repair work is less than the stated allowance amount, the contract total will be reduced to match the actual repair cost by change order. Accordingly, if the repair work exceeds the \$100,000 allowance amount, a change order shall be negotiated prior to exceeding the allowance amount for the cost of repair work greater than the allowance.

A. Interval: 8,000 Operating Hours:

1. Air Coolers:
  - a. Clean charge air cooler(s) and perform the pressure test.
    - i. Check carefully for corrosion.
2. Automation:
  - a. Check the wiring condition inside the cabinets and boxes.
  - b. Check for insulation wear, loose terminals, and loose wires.
  - c. Check for cable insulation wear, damages, loose cable glands, connectors, holders, and loose grounding shields.
  - d. Check for loose grounding straps and corrosion.
  - e. Check the sensors, actuators, solenoids etc. for leakages, physical damages. Also check the signal measurement where applicable.
  - f. Check the condition of the vibration dampers. Replace if necessary.
  - g. Verify correct reading on engine displays and meters.
  - h. Check the electronic modules visually for damages. Rectify, improve or replace the equipment if necessary.
  1. Check the sealing condition on cabinets and boxes.
3. NOTE: Exhaust manifold leak check and parts replacement will be conducted by Owner maintenance personnel.
4. Gas Regulating Unit:
  - a. Overhaul of the gas pressure regulating and safety shut-off valves per manufacturers instructions.
5. NOTE: Ignition system maintenance will be performed by Owner maintenance personnel.
6. Lubricating Oil Coolers:
  - a. Clean lubricating oil coolers.
    1. Unnecessary opening of the plate cooler should be avoided.
    11. Examine carefully for corrosion.

B. Interval: 12,000 Operating Hours:

1. HT Water Pump:
  - a. Inspect the HT water pump.
    - i. Dismantle and check. Replace worn parts.

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

---

2. HT Water Pump Driving Gear:
  - a. Inspect the HT water pump driving gear.
    - i. Replace parts, if necessary.
  
3. HT Water Thermostatic Valve:
  - a. Clean and inspect the HT water thermostatic valve.
    1. Internal thermostatic valve: Clean and check the thermostatic element, valve cone-casing and sealings.
    11. For externally mounted thermostatic valves see supplier's operation and maintenance manual.
  
4. LT Water Pump:
  - a. Inspect the LT water pump.
    1. Dismantle and check. Replace worn parts.
  
5. LT Water Pump Driving Gear:
  - a. Inspect the LT water pump driving gear.
    1. Replace parts, if necessary.
  
6. LT Water Thermostatic Valve:
  - a. Clean and inspect the LT water thermostatic valve.
    1. Clean and check the thermostatic element, valve cone-casing and sealings.
    11. For externally mounted thermostatic valves see supplier's operation and maintenance manual.
  
7. Lubricating Oil Automatic Filter:
  - a. Replace the lubricating oil filter candles.
    1. Drain the filter housing. Clean the wire gauze. Replace the filter candles.
  
8. Lubricating Oil Pump:
  - a. Inspect the lubricating oil pump.
    1. Replace parts, if necessary.
  
9. Lubricating Oil Pump Driving Gear:
  - a. Inspect the lubricating oil pump driving gear.
    1. Replace parts, if necessary.
  
10. Oil Thermostatic Valve:
  - a. Clean and inspect oil thermostatic valve.
    1. Clean and check the thermostatic element, valve cone-casing and sealings.
  
11. Prelubricating Oil Pump:
  - a. Inspect the prelubricating oil pump.
    1. Replace parts, if necessary.

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

---

12. Turbocharger(s) ABB TPL-Chargers:
  - a. Inspect the turbocharger bearings.
    - i. Inspect and replace the bearings, if necessary.
  - b. Replace the bearings on 36,000h at the latest.
    1. See the manufacturer's instructions.

C. Interval: 16,000 Operating Hours:

1. Camshaft:
  - a. Inspect camshaft bearings.
    - i. Replace if necessary.
2. Camshaft Driving Gear:
  - a. Inspect the intermediate gears.
    - i. Replace parts if necessary.
3. Connecting Rods:
  - a. Replace the big end bearing.
    - i. Replace the big end bearing. Inspect mating surfaces. Measure the big end bore appropriate inspection forms.
  - b. Inspect the small end bearings.
    - i. Inspect the small end bearings. Replace, if necessary.
  - c. Replace the connecting rod screws.
    - i. The nuts for the connecting rod screws do not need changing, unless they appear damaged. Clean and examine the nuts carefully at every overhaul.
  - d. Replace the connecting rod shims.
4. Crankshaft:
  - a. Inspect the main bearings.
    - i. Inspect one main bearing. If in bad condition, check/change all main bearings. Note the type of bearing in use and do the inspection accordingly.
5. Cylinder Heads:
  - a. Overhaul the cylinder head.
    1. Dismantle and clean the under side, inlet and exhaust valves and ports. Inspect cooling spaces and clean, if necessary. Grind the valves. Inspect the valve rotators. Check the rocker arms.
    11. Replace the O-rings in the valve guides and on the exhaust valve seat rings.
    111. Replace the O-rings at bottom of cylinder head screws at every overhaul

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

---

- iv. Put lubricating oil on the threads of the screw.
  - v. Mount the screw and tighten to specified torque.
  - vi. Fill the compartment between screw and engine block with lubricating oil.
6. Cylinder Liners:
- a. Inspect the cylinder liners.
    1. Measure the bore using appropriate forms; replace liner if wear limits are exceeded. Hone the liners. Renew the anti-polishing ring.
7. Engine Fastening Bolts:
- a. Check the tightening of the engine fastening bolts
    1. Replace damaged bolts.
8. Gas Admission Valves:
- a. Replace the main gas admission valves
    1. In installations where connectors are used, replace the female connector.
  - b. Clean the main gas admission valve insert.
    - i. Replace if needed.
9. Gas System:
- a. Maintain the gas system
    1. Replace the sealings in the pipe connections, check the sealing faces for wear and corrosion. Make the leak test.
10. Hydraulic Jack:
- a. Check Function.
    1. Replace O-rings in the hydraulic jack if they are leaking when lifting the main bearing cap.
11. Pistons:
- a. Inspect the pistons.
  - b. Dismantle the composite piston for inspection of mating surfaces between piston skirt and piston crown. Inspect and clean oil spaces.
12. Pistons, Piston Rings:
- a. Inspect the pistons and replace the piston rings.
    1. Pull, inspect and clean. Check the height of the ring grooves, use appropriate forms.
    11. Check the retainer rings of the gudgeon pins. Replace complete set of piston rings. Note the running-in program.

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

---

13. Prechamber:
  - a. Replace the prechamber lower part. Renew the O-rings and the bottom sealing rings.
  
14. Lubrication Oil:
  - a. Change the lubricating oil. Clean all oil spaces with a high-quality, fibre- and lint-free cloth.

10. Parts Availability: The COA anticipates the parts listed (with quantities) in Section VII. Overhaul Parts List will be available at the time overhaul work commences. Proposers are to include a listing and pricing of anticipated additional spare parts they deem may be necessary for the completion of the work in its proposal, in addition to those listed in the Overhaul Parts List. When, during the course of work, the successful Proposer reports that certain parts are needed for the overhaul effort but not listed in the Overhaul Parts List, the successful Proposer shall notify the City to make arrangements to purchase and secure the parts for Proposers use at the prices proposed.

11. Deliverables: Proposer will complete the work described above and provide a complete service work report after completion of the service overhaul. The report will include all measurements (both before and after work is completed) taken during the performance of service along with recommendations for any additional work to be completed during the next maintenance outage or overhaul.

12. Overhaul Status Conference Calls: The Proposer shall participate in a scheduled status conference call or WebEx (method to be determined by the City) to be held every two weeks with the City's Project Manager, the Production Plant Superintendent, and the City's Electrical Production Consultant. During this call, reporting of percent complete, additional materials or parts needed, issues impacting work schedule etc. will be covered. The City will arrange for the setting of the conference calls.

13. Acceptance Criteria: For payment purposes, Work on each engine will be considered to be completed upon completion of: 1) all Work in the attached scope and 2) post-overhaul operational testing as described in Table 3.03, criteria A, and Sections 03.6, 03.7, and 03.8 of the Wartsila 34SG Engine O&M Manual. Testing will be terminated and re-conducted following corrective actions in the event of an engine alarm occurring during the run-in program or the instance of any operating parameter falling outside of the Normal Values presented in tables 01-5, 01-6 and 01-7 in Section 01.2 of the Wartsila 34SG Engine O&M Manual.

14. Work Schedule: Proposers shall provide a Work schedule in Microsoft Project or similar readily-available work scheduling software showing at a minimum:

- a. Mobilization and demobilization
- b. Engine disassembly and reassembly for each of the seven engines
- c. Parts shipment to the shop for refurbishment, shop time, and return shipment
- d. Engine acceptance testing and release dates
- e. Dependencies among the tasks listed above

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9 -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

---

15. Payment Schedule: Proposers shall provide a payment milestone schedule based upon the completion of Work, including acceptance testing, on each engine. The payment schedule shall include mobilization, overhaul for each engine, testing, etc. Billings will be made upon completion of the maintenance service for each engine. No partial payments will be made for the maintenance service for each engine. Payment will be made at 100% upon successful testing of each unit.

16. Sample Contract: Proposers shall submit a non-binding sample contract with their Proposal. Contract negotiations are expected to ensue following contractor selection.

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, & 9**  
**WARTSILA OVERHAUUMAINTEANCE SERVICES**

**VII. OVERHAUL PARTS LIST**

(The parts listed, with quantities, in the attached sheets, are as reported by the City as being available for the overhaul and maintenance services. Three (3) lists are provided - The Overhaul Parts List, On-Site Maintenance Services List and Off-Site Workshop Services List.)



CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

VII. OVERHAUL PARTS LIST

INVENTORY BALANCE

Row	Item Number	Description	EPN	Unit	Opening Stock Qty	In Qty	Out Qty	Adj.	Closing Stock Qty
	ATL-2901056300	Kit Auto Drain (Air Drvr)	P	PCE	7			0.05	7
2	MOTO-290CASC	290 Cl,SC Mec;J. ea;Fo...r;_HT, _LT Fump, r;Auto r; Fa r;l s\$. Be aring		PCE	4				4
3	W34-131-14	Outlet Bellow Exhaust Gas Ventilation Fan	0001	EA	1	0	0	0	1
4	W34-3030069	Main Gas Fliter 0-ring (Gas Ramp) New part # B00463	0001	EA	2	0	0	0	2
					Opening Qty				ClosInfi Qty
Row	Item Number	Description	EPN	Unit	Stock Qty	In Qty	Out Qty	Adj.	Stock Qty
6	598*592*360/6F5	ft.]r_bag 2X592X360/6 F5 (ABA_50)	0001	f q \$	28	0	0	0	28
7	77682	Do Not Used	0001	PCE	1				
10	ABB-3AFP9010015	oltage F3.eg (UN192q)	Q 001	PCE					
11	ABB-3AFP9097193	earing hell for DE (d_l"lve e11d)	0001	PCE	1	0	0	0	1
12	ABB-3AFP9097196	Bearing Shell for NDE (non-drive end)	0001	PCE					
13	ABB-3AFP9872138	varistor Module	0001	rcr					
14	ABB-3AFP9877112	Bearing Oil ring (DI: & DS)	0001	PCE	2	0	0	0	2
15	ABB-3AFP9877134	PT-100Temp Sensor For Cooling Air	0001	PCE	1	0	0	0	
16	ABB-3AFP9877911	" cable ModulePower(Rectifier Diodes Module)	0001	PCE	3	0	0	0	3
17	ABB-3AFP9901203	D_E f:loii ng Labv.rilh leal	0001	PCE					
18	ABB-3AFP9901204	Bearing Labv.rilh Floating seal DE & NOE	0001	PCE	2	0	0	0	2
19	ALF-9460005842	Safety SW/itct1_f_or R8- d lor Fclns	0001	EA					
20	ALF-9460065949	pan Bliide N12361\$ _5/42(PA _!2\'.LL,141,??\$! . 2 A	Q.99.L		2	0	0	0	2
21	BOLL-1980298	Main Gas Filter Cartr: i dge Q nQil> R ii p	0001	EA	9	0	0	0	9
22	BRO-9460065948	Fan MotorFan MotorW-DA284T-F Pad 480/60Nema	0001	EA	5	0	0	0	5
23	HYDR-B5ETBDB_4.9_C	_Solen oid _y'alaVe Assem > lv (. S/\$_2 l'q _>)	oog1	PCE	3	0	0	0	3
24	INDU-6DR4004-8V	\$.iemens_Siplc"!_P nting_K_!!_(3-W_ay Valve P sitione r)	0001	PCE	15	0	0	0	15
26	PHO-421029	Terminal 4mm2. AKG4 Yellow-Green	0001	PCE	2	0	0	0	2
27	SAU_002552	N-Ring of a l.Jer							
28	SAU-002566	Jl Rii:ig (Sauer) ?e.e! Jote_s	0001	f(:E	1	0	0	0	1
29	S_AU_00298	..9.l:clip (Sa1Jer)			6	0	0	0	6

Item #	SAU #	Description	Code	Unit	QTY	Rate	Amount	Other	Total
30	SAU-002988	CITY OF ALEXANDRIA, LOUISIANA	0001	PCE	?	0	0	0	2
31	SAU-033187	Piston Pin-Bearing (Sauer) - WARTSILA OVERHAUL/MAINTENANCE SERVICES	0001	PCE	2	0	0	0	2
32	SAU-033788	Radial Needle Roller Bearing (Sauer)	0001	PCE	3	0	0	0	3
34	SAU-033893	Concentric Valve (Sauer)	0001	PCE	1	0	0	0	1
35	SAU-034552	Piston Pin-Bearing (Sauer)	0001	PCE	1	0	0	0	1
36	SAU-034591	Concentric Valve (Sauer)	0001	PCE	1	0	0	0	1
37	SAU-035199	M-Ring (Sauer)	0001	PCE	1	0	0	0	1
38	SAU-035200	G: J:ng(S:;iu_er)	0001	PCE	2	0	0	0	2

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

39	SAU-037050	- ing { auer)	0001	PCE		0	0	0	
40	SAU-037051	G-Ring (Sauer)	0001	PCE		0	0	0	
42	S_AU-039548	Ring (Sauer) _	0001	PCE		0	0	0	
43	SAU-039548	Filter Element (Sauer.)	0001	PCE	2	0	0	0	2
44	SAU-056235	iac _ gf3.i11g C_!:)pper(-S.,aller) See tes	0001	PCE	3	0	0	0	3
46	SAU-056239	Packing Ring (Sauer)	0001	PCE	5	0	0	0	5
47	SAU-056272	onnect!!)g _Rod Bearing		PCE	3	0	0	0	3
48	SAU-056282	Gasket (Sauer)	0001	PCE	2	0	0	0	2
49	SAU-056334	asket ( auer) _ _ _	0001	PCE	5	0	0	0	5
50	SAU-056335	Gasket (Sauer)	0001	PCE	4	0	0	0	4
51	SAU-056369	a 9.t ( auer.r) _ _ _	0001	PCE	1	0	0	0	1
53	SAU-062376	C::yli de i:ootPa ki g (Sauer)	0001	PCE	6	0	0	0	6
54	SAU-063079	9..? ke_! (Sau1:1r)	0001	PCE	3	0	0	0	3
55	SAU-063748	Gl:lske! For Cover (Sauer)	0001	PCE	2	0	0	0	2
56	SAU-065526	!"i tor, _Pin 3!_d St?ge (Sauer)	0001	PCE	1	0	0	0	1
57	SIER_ 200-02-IT-AL	LEL, Sierra Monitor's _mon!tors combus l g es	0001	EA	7	0	0	0	7
58	SKF-6308-C3	Bear ngJor l3adiator f.?n or	0001	EA	16	0	0	0	16
59	SKF-6310-C3	Bearing for _Ra9iator Fan Motor	0001	EA	9	0	0	0	9
60	W34-289278	}_her: _m me r.(ln!1:t & O _t.let on the sg,13)_	0001	EA	5	0	0	0	5
62	W34-379643	Gasket Set ( ir, Vi)he Actuator Re_bu!ld Kit)	0001	PCE	6	0	0	0	6
63	W34-435510142-30	Exhaust Gas Ventilator Fan Complete _ _		PCE					
64	W34-6711162000	Rup_t_1:1re Disc ( Type...CV-S:1-!;W-RI) (qN_12_9_())	0001	PCE	2	0	0	0	2
65	W34-704	H_T Heater Element 54K_W	0001	PCE	1	0	0	0	1
66	W34-77682	1, _t, Heating Eleme t?? YY	0001	pee-"		0	0	0	1
67	W34-FH31_1	Flexible Hose OD12	0001	EA	15	0	0	0	15
68	W34-PAAF560892	Temperature Sensor for Gen.	0001	PCE	1	0	0	0	1

Row	Item Number	Description	EPN	Unit	Stock Qty	Opening In	Opening Out	Opening Adj.	Closing Stock Qty
69	ADV-PT450-S10-H-F10-F12-N-270S	Description: 1St & 2Nd Shut Off Valve For Gas Ramp (V003, V004)		PCE	7	0	0	0	7
70	ADVA-UV3.5-15-GA01-25-D070-0 5-V1	Air Tongue Actuator, Advanced Indus		PCE	2	0	0	0	2
	YE-E 79	Maintenance Kit For Pressure Control Valve On Urea Pump Skid							
71	-0201660123	Hexagon N!Jt (HT, LT 3-Way 'Valv13) _		PCE	2	0	0	0	2
72	A I-0212320060	Head Cap_Sc w. (HT, LT 3-Way Vatv13)		PCE	2	0	0	0	2

Item ID	Description	Category	QTY	UNIT	PRICE	TOTAL
73	ARI-0273020061 Sliding Piece For HT, LT 3-Way Valve	PCE	0	0	0	1
74	ARJ-0312020329 WARTSILA OVERHAUL/MAINTENANCE SERVICES 901,1p_ling Flange Df J,,4, (1:J.T,P 3-Wayvalve)	PCE	0	0	0	1
75	ARI-0312060206 AnUTorsion Device DP34.(HT, LT 3-Way Valve)	PCE				
77	ARI: _480_1_1031 Tt!readed Bush, _M16_1. ..P£.J4 ( HT, T 3-1/ffiy \falNe)	PCE				
79	I-(!_ QOQQ_OQ7. _ V-Ring:_Unit For Fjg, 41Q.4_50 DJ!(HT, LT 3-Way_ Valve).	PCE				
81	ATL-2901-9905-61 Sensor Dew Point for_Air ye_1jKit)	PCE				
82	BREN-23022 P..rk_P_!_!lg Boot [t (501 1,9 L	PCE	21	0	0	0
83	BUSS-FNQ-R2 A FUSE BUSSMANN, FN_9-R2">.	PCE		0	0	0
84	CAS-058100004 7 Straig t j=ipe Co!Jp g, Compressed Air Systems _	PCE	1	0	0	0
85	CAS-0603415082 Fla_nge, Compres_se_d ir Sys_!Elf!!	PCE	4	0	0	0

	0	0	0	1
	0	0	0	1
2	0	0	0	2
1	0	0	0	1

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

Item #	Part #	Description	Unit	QTY	0	0	0	0
87	CAS-8204094109	Nee_del Valve,C,<J_mpr_e ed_r <u>System s</u>	PCE	1	0	0	0	0
88	ETHER-1617-7041-11	Air Dry after Filter & PreFil er (2901 2003 07) See Notes	PCE	6	0	0	0	6
89	EXLOC-C15158PB00B	<u>ol eiloid Vale e for M1,1C (r:e-Gc1ss g valve)</u> See No s.	PCE	2	0	0	0	2
90	EXLOC-VSKC1SP	Seals Kit for C15-s.9ries <u>so lenCJ_i9</u> , MMC De-Gassirig Vc1_lve	PCE	2	0	0	0	2
91	<del>FAST-113717</del>	Screw f01?-_1.75 <u>X_Q mm (3S,Q '11:!) See N.9tes</u>	PCE	10	0	0	0	10
93	FAST-1139663	Screw M12-1._?_ x80 12.9SHg_S (2_02}64)	PCE	6	0	0	0	6
94	FAST-1190703	Nu_t, M12-1.:.75 Di11692_?Zinc (?0.?_1_3-2L	PCE	21	0	0	0	21
95	HYDR-S2.50X012	O-Ring for Push . ad Tube. ( 8 136) See Not s	PCE	40	0	0	0	40
96	HYDR-S70126	Q-Bing_for_! :ush l3od_J:ube (!.4?_Q. )\$See !:lates	PCE	40	0	0	0	40
97	HYDR -S70220	Cl-Ri_ng for Push Rod.lLJbe (1?Q 081) See Notes	PCE	40	0	0	0	40
98	HYDR -S70227	Q Ring f _Pw,h 13_qls_l_ube (!_±5 021) See <u>N_otes</u> ---	PCE	40	0	0	0	40
99	HYDR-23MMX18MMX1MM	Copper Washer, CW23m_rn_X18mmX1mm (1?4 Q )See_Notes	PCE	200	0	0	0	200
100	<del>HYDR-30974</del>	t_o!_v.Ye ir,g_!' _QR_] -8 (<:;)ld <u>Actuator on IY!_MC:: Valve)</u>						
101	HYDR-76MM08040PT	8MM X 1_0MM 16SS Tubi_r,g For:._<lirl ne (MMC Valve)	PCE	1	0	0	0	
102	HYDR-8-4HMK4S	\$traight Male 4f5 LJ_nion (_M_ Hy _Jack),_	PCE	1	0	0	0	
103	HYDR-8047616	Festa Actuat<Jr Cy nder for MCC Valve ( See Notes)	PCE	5	0	0	0	5
104	HYDR-8082123	_fe_o Redu ing Sie_ eve_for MMC_ a! :e (_ See Notes)	PCE	2	0	0	0	2
105	HYDR-DST108-85X89X2.5N	_9-RingFor Urea Filter Ho_ using (450 016)	PCE	2	0	0	0	2
106	HYDR-MOD 108X 5.3 HNBR	_5.;3-_x !Q\$ HNBR_Q -Ring ( ?4_'_ ) L_1:1be_Qil!_Mo_dule_fiping	PCE	18	0	0	0	18
107	HYDR-MOR 11SX 3.3HNBR	11Sx 3.3H_NBB O-F,ing (474 1_5_4) Lube_Oil_")_odu_ Pipir:ig	PCE	10	0	0	0	10
			PCE	10	0	0	0	10
108	<del>HYDR-MOR 120X_3.5HNBR</del>	ggx 3: H Q-Ring (474 166) Lube Oil_ Module Piping	PCE	10	0	0	0	10
			PCE	10	0	0	0	10
109	HYDR-MOR-154.3X5.7	O-ring For M56 Hy9 Jack					0	10
110	<del>HYDR-MOR-194X3</del>	<u>et ic O-R g, &lt;Jr Oil Centrifugal (473 066,473 069)</u>	PCE	34	0	0	0	34
111	HYDR-MOR-79.6X5.7	O-ring For M56 Hyd J_!ck	PCE	10	0	0	0	10
			PCE	0	0	0	4	4
114	<del>HYDR-PD15N O_</del>	<u>Interr,il Drai_r, For Air Regu@tCl_r ( s;_B\$!_IIP)</u>	PCE	7	0	0	0	7
			PCE	10	0	0	0	10
115	HYDR-SS-4CP2-RT-1	/4!' Che_c;kValv_e_ ( _)?CJsi_r,g Unit, 289 314)	PCE	40	0	0	0	40
116	HYDR-SUI-8M	8-M_x 1:9MM- 316 Co 1:1p_!r:ig l: _or_Air_L!ne (MMC Valve)	PCE	40	0	0	0	40
117	HYDR-VOR-N90.118X 164.6MMID	O-!3-ing, _Gas Ramp Fil!er (3030069) e_e N_otes	PCE	5	0	0	0	5
118	HYDR-VOR-N90.197X55MMID	<u>O-Ring for Pus!:_Rod Tub_El(12Q QQ3)</u> SEle Notes	PCE	1	0	0	0	1
119	HYRD-45952	AQU Rehobot Coupler ("= 156 Hyd Jack)	PCE	1	0	0	0	1
120	<del>INDU-C7345_1-A430-D B0</del>	emens E>,_ctuator Sip_art 2Wh:_e_IJYIQ Hart INT, 3-way_valve	PCE	1	0	0	0	
121	INDU-C7345_1-A430-D B0	Siemens Pizo Valve Block.) ay V11lve						
122	<del>FL COM SERRVER UNI</del>	\$!_GN_ AL HORN (_?_1v) 92 B (A) l_P4_						
123	PEI-257962	2/2-Way- olenoid Va_lv.9, No_r:mally Closed (Dosi_ng lJnit)	PCE	2	0	0	0	2
124	PEI-259033	<u>2-vvav-l:roport!&lt;:_ l Valve</u> ( Ur a \$,yatem)	PCE	2	0	0	0	2
125	PEI-260611	f?:Y,..ay-Solenoid Valve, _Normally Clo ed, (D_ sing nit)_	PCE	2	0	0	0	2
126	PEI-260614	?E: ay-Solenoid <u>Valv_ Normally Op_!!(Dosing Unit)</u>	PCE	2	0	0	0	2
127	PEI-6240	2/?-Way-Servo-Solenoid Valve_(? 8_030) BUR25_16	PCE	2	0	0	0	2
128	<del>PHO-22 891 4</del>	..GABEL FLK 14/EZ-DR 100/KONFEK	PCE	2	0	0	0	2
129	PHO-22 95 55 4	VB adapter PLC-V8/FLK14/OLJI(?_4V)	PCE	1	0	0	0	1
130	PHO-22 96 28 1	flollt_q pJ .4 nnelS <del>FLK14/PA-S300</del>	PCE	2	0	0	0	2
131	PHO-23 13 45 2	FL COM SERRVER UNI	PCE	2	0	0	0	2
132	PHO-23 20 17 3	QUINT-Oring/24Dc/2X10/1X10	PCE	3	0	0	0	3

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

133	PHO-2321185	GABEL FCN40/4X14/1.OM/S7-OUT	PCE	2
134	P_HO29_66171_	_i::LC:: relay b11se termif:ial b.loc_PLG- SC-24DC/21	PCE-----	24
135	PHO-30 49 02 6	Bolt connection terminal block	PCE	100

0	0	0	2
0	0	0	24
0	0	0	100

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

136	PHO-423027	ERMIL JAL 16 2 AKG 16 YELLOW JY-GREEL	PCE	15	0	0	0	15
137	PRO-ZK311007	Wafer-Tyrrie 13al valve, N50,M_MC Valve	PCE	1	0	0	0	1
138	PRO-ZKD10007	ealing il ?K, ) ! 0. PJ:FE for C::, Y lve	PCE	2	0	0	0	2
139	RUS-22310E/C3	Bearing, LT & f-it Water Pumr:i (191 013)	PCE	1	0	0	0	1
140	RUS-300104	ljyc: !_filt Fe>r Qe_ri ra!_()r Bearing Sys!_ems (01_E 90.10VG.30.E.P)	PCE	0	0	0	14	14
141	RUS-304657	O-Ring For Hyd Filter For Generator Bearing Systems	PCE	0	0	0	14	14
142	RUS-304660	Teflon Shor E Ring For Hyd Filter For Generator Bearing Systems	PCE	0	0	0	14	14
143	RUS-6304 2ZJEM	Bearing For Oil Centrifugal Filter	PCE	10	0	0	0	10
144	RUS-6308JEM	earing LT_HT_Wate r P ump (191 012)	PCE	1	0	0	0	1
145	RUS-PS-4077	r-l_echanical Seal (Ht, Lt vWater Pu111p) see notes	PCE	7	0	0	0	7
146	SAU-005009	asket, Cu, Dii:, r6Q3A 22X27X1.5	PCE	2	0	0	0	2
147	SAU-037839	l"hermometer 3rd_Stage	PCE	1	0	0	0	1
148	SAU-06465	F>ip_e onnection, 22mm_Tu_be X G_!_/2	PCE	2	0	0	0	2
149	SCHW-0787EX1ACA0X75850210	SE:L: ?87, Tra_nsf0_!_r!le_r F'otecie>1J3.elay (Sc weitzer)	PCE	2	0	0	0	2
150	SPOC-PP00072	9-14 DC FAN:48YDC, 135 WATT	PCE		0	0	0	
151	SPOC-SO1017	FR-9-14 DC-DC POWER BOARD	PCE		0	0	0	
152	STO- QX2WB02HDM	Limit Switch For 1st, 2nd Shut Off Valve On Gas Ramp ( V003,V004)	PCE	7	0	0	0	7
154	WEID-4	TERMINAL B1::OG_K, IJDU 4	PCE	105	0	0	0	105
155	WEID-WSI 25/2 CC	2 Pole Fuse Block	PCE		0	0	0	1
156	WEID-WSI 6/LD FUSE 100MA	FUES TERM, BLO<:K WSI_§ D FUSE 10Q_n_	PCE	10	0	0	0	10
157	WEID-WSI 6/LD, FUSE 100MA	F USE TERM, BLOC<WSI 6/LD, FUSE 100mA	PCE	10	0	0	0	10
158	WEID-WTL 6 /1	TERMINAL BLOCK WTL 6/1	PCE	20	0	0	0	20
159	WEID-WTR 2.5D	DIODE TERMINAL BLOCK(WTR 2.5D)	PCE	12	0	0	0	12
160	WEID-WTR2.5D	DIODE TERMINAL BLO<:K, WTR2.5D	PCE	7	0	0	0	7
161	WEID-ZDC 16	TERMINAL BLOCK, ZDC 16-	PCE	10	0	0	0	10
162	WEID-ZDK2.5/1.5	TERMINAL 13!::QC::!S, 2_!_DK 2.5/1.5	PCE	10	0	0	0	10
163	WEID-ZDU 10	TERMINAL BLOCK	PCE		0	0	0	1
164	WEID-ZDU 2.5/4AN	TERMINAL BLOCK ZDU 2.5/4AN	PCE	45	0	0	0	45
165	WEID-ZDU 2.5AN5	TERMINAL BLOCK, ZDU 2.5AN5	PCE	5	0	0	0	5
166	WEID-ZDU 4	TERMINAL BLOC<:K, ZDU4	PCE	5	0	0	0	5
167	WEID-ZDU 6	TERMINAL BLOCK (WU 6)	PCE	5	0	0	0	5
168	WEID-ZDU2.5/3AN	TERMINAL BLOS:f<, ZDU2.5/3AN	PCE	10	0	0	0	10
169	WEID-WSI 6/LD,FUSE: 1A	FUSE TERMINAL BLOCK, WSI 6/LD, FUSE 1A	PCE	15	0	0	0	15

,CommoclityGroup:,ELC:

In Out Adj.

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

In	Out	Adj.	Description	Unit	4	0	0	0	4
170	ABB-1SCA022731R8150		Terminal shroud	PCE	4	0	0	0	4
171	ABB-FT4A14T10CN4119		† SwiJch ( T1i-4119C)	PCE		0	0	0	1
172	ABB-S201U-K1		Min. Gire. Breaker	PCE	1	0	0	0	1
173	<u>ABB-S201U-K10</u>		<u>Min. Gire. Breaker</u>	PCE	3	0	0	0	3
17.4.	<u>ABB-S201U-K15</u>		Min. Gire. Breaker	PCE	3	0	0	0	3
17.5.	<u>AB.BS201UK4</u>		Min. Gire. Bre_a_k_e_r	PCE	5	0	0	0	5
176	ABB-S203UP-K10A		Cir, Breaker 480/277V	PCE		0	0	0	



CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUUMAINTEANCE SERVICES

177	AB-B-SCSRU	fircuit_\$_rec1 Acc1:1 sory_!9YC	PCE	7	0	0	0	7
178	FED-FB78WW	Spark Plug, Bridge Plug_Q.3mm (Federal-Mogul)	PCE	1	0	0	0	1
179	PHO-421032	J"e!m[n ir.nm2, A G_4_1!/?_C:k -	PCE	15	0	0	0	15
180	PHO-423030	Terminal 16mm2, A <:3_16 Black	PCE	15	0	0	0	15
181	PHD-424026	Termina_ :3 mm2, KG_3_ Elllow-Green	PCE	5	0	0	0	5
182	PHO-424039	Terminal_35mm?, AKG 35 Bl ck	PCE	2	0	0	0	2
183	SCHN- RXZ S2	- US J_UMI:ER, RXZ \$2_(f: 'A _\$_=1Q_Qpcs) (Schneider)	0001 PCE	300	0	0	0	300
184	SCHN- ZB5-AZ103	Base For Control Switch Switch (Schneider)	0001 PCE	2	0	0	0	2
185	SCHN-3593557	lele_m, SJfEly f3eEJY_2:(ps-Ac51_1_24vdc ( chneider)	0001 PCE	1	0	0	0	1
186	SCHN-3860060	De Aux. Relay 4 C/O Rxm4gb1bd_ (Schn_ei er)	0001 PCE	1	0	0	0	1
187	SCHN3XZ BE-101	_ase_!: r Black electoi: _S i!<:;h ( chneider) ..	0001 PCE	1	0	0	0	1
188	SCHN-GV2 ME07	fircuit Brea er, Telem, Gv MeQ? (Schneid:l_r)	0001 PCE	1	0	0	0	1
189	SCHN-GV2 ME10	<::Jrcuit Breaker, lelem, v Me!Q_ ( chne del)	0001 PCE	1	0	0	0	1
190	SCHN-GV2 ME16	Circuit Breaker, Telem, Gv2 Me_:@ (SchnElide_)	0001 PCE	1	0	0	0	1
191	SCHN-GV3 G66	\$paci_ng foyer, !el_em, Gv G66 (Se:hn_ei9er)_	0001 PCE	1	0	0	0	1
192	SCHN-GV3 P32	Circuit l:reaker (Schneider)	0001 PCE	1	0	0	0	1
193	SCHN-GV3 P40	_Girc1:1!!_Br_ea_er, Jele1!7, G_v3 1:40 ( cb_ ! er)	0001 PCE	1	0	0	0	1
194	SCHN-GVAD0110	Fault Single_Contact, Telem, G!ad0110 (Schr: !_eJder)	0001 PCE	3	0	0	0	3
195	SCHNG_VAE_20	f:_lug fl_AuxJGvc1_e29) ( chnel er)	0001 PCE	3	0	0	0	3
196	SCHN-GVAM11	Short CirtJit Co]_tact, Telem, Gv A1"!1_11 (Schn_El_id_er)	0001 PCE	1	0	0	0	1
197	SCHNK1B002 A	_l:las !:_or !ele El_can que, Key S itc:h (Scti_n_eider)	0001 PCE	1	0	0	0	1
198	SCHN-K1D024M	Base For C ntrol Switch ( chneider)	0001 PCE	1	0	0	0	1
199	SCHN-KBC1B	_go_ntrol Swi_tch (S_chn id13r) Se No s _	0001 PCE	1	0	0	0	1
200	SCHN-KBC1S	Telemecanique, Y Sw!tc:h (SchnElider)_See t:l_otes	0001 PCE	1	0	0	0	1
201	SCHN-LADN20	go_ntact Blo k (L dn 0) (9bn_eidel).	0001 PCE	3	0	0	0	3
202	SCHN-LADN22	Telem, Auxiliary Contact Ladr22 ( chneider)	0001 PCE	1	0	0	0	1
203	SCHN-LC1 D09F7	ontractor_1_0_Y_ac_!_rel_em, Lc_1 Q09f ? (Schne_ider)	0001 PCE	1	0	0	0	1
204	SCHN-LC1 D118F	C n_tac:tor !!_D Vac, Telem, Lc1D118f (S_chnl:li !)	0001 PCE	1	0	0	0	1
205	SCHNLC1 D32F7	(_on.ctoi:_1 Q/Vac, !Ellem, _c1 D??.?17. (Schnei_er)	0001 PCE	1	0	0	0	1
206	SCHN-RXM 040W	Diode 4-C/O Rxm 040w (Se:hneider).	0001 PCE	30	0	0	0	30
207	SCHN-RXM 4A1B1D	ux, Relay De 4-.f/Q_Rxm (Sc n Elr)	0001 PCE	1	0	0	0	1
208	SCHN-RXM 4GB1BD	D_c Aux_Relay 4-C/O Rxm 4gb1bd (Schneider)	0001 PCE	15	0	0	0	15

Item No.	Part No.	Description	QTY	Unit	Price	Ext. Price	Qty	Unit	Price	Ext. Price
209	SCHN-RM4GB1F7	Relay 4-C/O Rxm4g 117 (Schneider)	12	PCE	0.01	0.12	0	0	0	0.12
210	SCHN-RXM4GB1F7	Ac Aux. Relay 4-C/O Rxm4g 117 (Schneider)	5	PCE	0.01	0.05	0	0	0	0.05
211	SCHN-RXZ E2S14M	gonn. 4-C/O, Rxz !=2s1_1!.m (S9hn_eider)	50	PCE	0.01	0.50	0	0	0	0.50
212	SCHN-V260 X1	Vamp 260 Po'JV.Elir Mounting Unit (Schneider)	15	PCE	0.01	0.15	0	0	0	0.15
213	SCHN-XB5 AA11	P_ush_Bu;t ' } hite :_1no (Sc;bneid_er)	1	PCE	0.01	0.01	0	0	0	0.01
214	SCHN-XB5 AVB3	J:_jlot ight With Led Green_ ( Ch!Jeider)	1	PCE	0.01	0.01	0	0	0	0.01
215	SCHN-XB5 AVB4	F'ilot Ught With Led Re .( chn_eider)	1	PCE	0.01	0.01	0	0	0	0.01
216	SCHN-XB5-AS542	Emergency Stop Push Button(Schn_eider) See Notes	1	PCE	0.01	0.01	0	0	0	0.01
217	SCHN-XPS-AR-UL	afety f3e(ay A .? d_c (Scti_nei_d r)	2	PCE	0.01	0.02	0	0	0	0.02
218	SCHN-XPSAR311144	Safety Relay - Multipurpos_El, Ir)c::luding !:,ight _9urta_ins (Schneider)	1	PCE	0.01	0.01	0	0	0	0.01
219	SCHN-2B5-0811	s or_f)us - ttoi' (White) ( hnd )	1	PCE	0.01	0.01	0	0	0	0.01
220	SCHN-ZB5-AA1	r:>ush Bul_ton White_(Schneider) See Notes	1	PCE	0.01	0.01	0	0	0	0.01
221	S_CHN-ZB5-AA4	i:.u h utlon f3ed) ( ghnei_er) See f-lojes	1	PCE	0.01	0.01	0	0	0	0.01
222	SCHN-ZB5-AA7340	Push Button Green/Red (Schneider) See Notes_	1	PCE	0.01	0.01	0	0	0	0.01

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUUMAINTEANCE SERVICES

223	<u>SCHN-ZB5-ADi</u>	Control Switch (Black) (Schneider) See Notes	0001	PCE	- 1 -- 0 -- 0 0		
224	SCHN-ZB5-AD3	Black Selector Switch (Schneider) See Notes	0001	PCE	1	0	6 --- 0 1
225	SCHN-ZB5-AD5	gontr(JL wit h (!31 ) (Schneider) See Notes	0001	PCE	2	0	0 0 2
226	SCHN-ZB5-AK1343	Base Is For Control Switch Red+ 3no	0001	PCE	1	0	0 0 0
227	<u>S C 5- 3</u>	<:::ontrol Swit h (Whit ) (S hn ide !") S <- _tes_	<u>0001</u>	<u>PCE</u>	1	0	0 0 0
228	SCHN-ZB5-AS844	EmergencyStop_LCJcki11g Bu1:lo_n_(!3-ed) (Schneider) See Notes	0001	PCE	2	0	0 0 0 2
229	SCHN-ZB5-AWOB11	Base For Push Button (Schneider)	0001	PCE	3	0	0 0 0 3
230	<u>SCHN-ZB5-AWOB12</u>	ase for Push 81Jton (Green)-(Schneider)	0001	PCE	1	0	0 0 0
231	SCHN-ZB5-AWOB13	Base for Control Switch (White) (Schneider)	0001	PCE	1	0	0 0 0 1
232	SCHN ZB5-AWOB41	ControlSwitch Red +-3nC> ( hneide!)See Notes	0001	PCE	1	0	0 0 0
233	<u>S CHN-ZB5-A Vv Qf?</u>	- se For PUSH BUTTQN_(YEL, OW)(Schneider)	0001	PCE	1	0	0 0 0 1
234	SCHN-ZB5-AWOB51	Base for Push Button (Yellow) (Schneider)	0001	PCE	1	0	0 0 0 1
235	<u>SCHN-ZB5-AW313</u>	Push Button (White) (Schneider) See Notes	0001	PCE	1	0	0 0 0 1
236	SCHN-ZB5-AW333	Push Button (Green) (Schneider) See Notes	0001	PCE	2	0	0 0 0 2
237	SCHN-ZB5-AW343	Push Button (Red) (Schneider) See Notes	0001	PCE	2	0	0 0 0 2
238	SCHN-ZB5-AW353	Pushbutton cirangeOr Yellow +1 o (\$ch_n ider) <u>See Notes</u>	<u>0001</u>	<u>PCE</u>	3	0	0 - 0 - 3-
239	<u>SCHN-ZB5-AWOB11</u>	Base For gu_ar lush !! me !:'ush_utton (SchneJder_)	<u>0001</u>	<u>PCE</u>	2	0	0 0 0
240	SCHN-ZB5-AZ101	Base For Push Button_Yfhe, Red, Gre (Sch11eider)	0001	PCE	3	0	0 0 0 3
241	<u>S...C.I.IJ:1. BS- !J2</u>	Base fC>r P_ush B ori: ( NC) ( chneid.er) _ _	0001	PCE	2	0	0 0 0 2
242	SCHN-ZB5-AZ103	Base For Blac . Red, <3reen Selector Switch_ (Schneide!)	0001	PCE	2	0	0 0 0 2
243	S f!N ZE!_ -- 1()' .7	?J for Push_Btto11 (2NC) (S_chrieide ).	<u>Q(J01</u>	<u>Pei::</u>	3	0	0 0 0 3
244	SCHN-ZB5-CW313	White square flush illume pushbutton (Schneider) See Notes	0001	PCE	1	0	0 0 0 1
245	<u>SCHN-ZBE 101</u>	Base f_or Contr_C>l S_ 'N_itchJ3.ed. + 3no (Schneider)_	0001	PCE	1	0	0 0 0 1
246	SCHN-ZBE101	Base Push Button (Re_d) (Schneider)	0001	PCE	1	0	0 0 0 1
247	<u>SCHN-ZBE102</u>	Base for i:_ush Bu_tt(Jn (Green (Schneider)	0001	PCE	1	0	0 0 0 1
248	SIEN-6ES7153-4AA01-0XBO	I11Jerface Module (Sie111ens)	0001	PCE	2	0	0 0 0 2
249	SIEN-6ES7 315-2_1:: !: !_1 -Q	g_Er: i T L PROq1:s s 1 r,JG UNJT (Siemens)	<u>0001</u>	<u>PCE</u>	2	0	0 0 0 2
250	SIEN-6ES7 321-1BLOO-OAAO	Digital Input Module (Siemens)	0001	PCE	2	0	0 0 0 2
251	SIEN-6ES7 321-1BPOO-OAAO	<u>Digital Input Module (Siemens)</u>	0001	PCE	3	0	0 0 0 3
252	<u>SIEN-6ES7.322-1B-LOO-OAAO</u>	DIGITAL OUTPUT <u>MODULE</u> (Siemens)	0001	PCE	2	0	0 0 0 2
253	<u>SIEN-6ES7 322- POQ-Q Q</u>	<u>DIGITAL OUTPUT MODULE</u> (Siemens)_	0001	PCE	2	0	0 0 0 2
254	SIEN-6ES7 331-1KF02-0ABO	ANALOG INPUT MODULE (Siemens)	0001	PCE	3	0	0 0 0 3
255	SIEN-6ES7 332-5HD01-0ABO	Analog Output Module (Siemens)	0001	PCE	1	0	0 0 0 1
256	<u>SIEN-6ES7 332-5HFOO-OABO</u>	Analog OutputModule-(Siemens)	0001	PCE	2	0	0 0 0 2
257	SIEN-6ES7 392-1BJOO-OAAO	Connector, Spring Type (Siemens)	0001	PCE	1	0	0 0 0 1
258	<u>SIEN-6ES7i92-1BM01-OAAO</u>	-connecto_! , Spring Type (Siemens)	<u>0001</u>	<u>PCE</u>	3-	-0	0 0 0 3
259	SIEN-6ES7 392-1BNOO-OAAO	_]"erminal BloEk(Siemen )_ _ _ _	0001	PCE	3	0	0 0 0 3
260	SIEN-6ES7 392-4BC50-OAAO	C_onnectionJ;; le Le!lg!h ?_ - ri:J40pins) (Siemens)	0001	PCE	6	0	0 0 0 6
261	SIEN-6ES7 953 8LL31-OAAO	Memory Card (Sematic S7-300) (Siemens)	0001	PCE	2	0	0 0 0 2
262	<u>SIEN-6GK7343-1CX10-0XEQ</u>	Communication <u>Processor</u> (Siemens)	0001	PCE	1	0	0 0 0 1
263	<u>N-6gK53Qf?FL 1 Q:AAf</u>	ectri IJ?w. ch odule ( calance 2().Q?:?) (S! mens) _	0001	PCE	2	0	0 0 0 2
264	SIEN-6Q 320-1BD00-2AA3	Electrical Switch Module (Scalance X320-1fe) (Siemens)	0001	PCE	1	0	0 0 0 1
265	WSI-252 )	2 Pole Fuse Block		PCE	1	0	0 0 0 1

Commodity Group: ENG

Row	Item Number	Description	EPN	Unit	Opening Stock	Qty	Closing Stock
-----	-------------	-------------	-----	------	---------------	-----	---------------



CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

						Qty-	"ir,-	Out	Adi:.,	Qty!i:j	
266	AUX-B00055	Filter element			0001	PCE	2	0	0	0	2
267	<del>AUX-P00016</del>	Transmitter			<del>0001</del>	PCE	2	0	0	0	2
268	AUX-T00025	Temperature sensor			0001	PCE	2	0	0	0	2
270	<del>AUX-V00083</del>	Body gasket			0001	PCE	7	0	0	0	7
					0001	PCE	2	0	0	0	2
271	AUX-V00086	,Rolling diaphragm,									
272	AUX-V00387	Service kit			0001	PCE	2	0	0	0	2
273	<del>AUX-V00388</del>	Gasket			0001	PCE	2	0	0	0	2
274	<del>AUX-V00391</del>	Gasket									
					0001	PCE	2	0	0	0	2
275	<del>AUX-V00411</del>	Ball valve			0001	PCE	2	0	0	0	2
276	<del>AUX-V00483</del>	Service Kit			0002	PCE	2	0	0	0	2
							2	0	0	0	2
277	AUX-VDA004	Level switch For Ht & LT Preheaters			0004	PCE	1	0	0	0	
278	<del>AUX-VDA007</del>	8-afety valve (_Tag# V004)			0003	PCE	3	0	0	0	3
279	AUX-VDA008	Non-return valve			0002	PCE	5	0	0	0	5
280	<del>AUX-VDA009</del>	ir ve_nting Vcdve			0002	PCE	1	0	0	0	1
							0	0	0	1	1
281	AUX-VDA057	Centrifugal pump			0001	PCE	2	0	0	0	2
282	<del>AUX-VDA003</del>	Level switch				PCE	100	0	0	0	100
						PCE	30	0	0	0	30
283	FAST-1139619	ttex_Sc.1:ew, Ignition CCJil_(1Q_Z_g_1) See r-Jotes				PCE	30	0	0	0	30
284	<del>FAST-11507233</del>	C_r_ank C::ase_Qoor tud (10_Z 0 1) O S				PCE	12	0	0	0	12
						PCE	10	0	0	0	10
285	FAST-90704	Crank C se Door Flange_Nut (107 01_8) _s. e Notes				PCE	100	0	0	0	100
286	<del>HYDR-5069BJS-06-12</del>	<del>Sdin Banjo X Metric-ES_Seals</del>				PCE	4	0	0	0	4
287	HYD_R568-112-90_D	O- ng 9_0_NBR-1/2_'_xj _2"-C/S (59) (107 064) WaWu111p									
288	<del>HYDR-568-221-NBR</del>	<del>O-Ring HNBR (120 097)</del>									
289	HYDR-568-261-90D	O-Ring 90 DU Q_ 271 (107 177) \\\fat-Plli:r.p				PCE	5	0	0	0	5
290	<del>HYDR-568-270H</del>	<del>O-Ring NBR Q_ :!_lg (191177) y at Pti r tp</del>									
291	<del>NOR-28924_0</del>	Pressure transmitter			0002	PCE	1	0	0	0	
292	<del>NOR-289241</del>	.P_ressure transmitter			0002	PCE	1	0	0	0	1
293	NOR-289249	Flow meter			0005	PCE	4	0	0	0	4
294	<del>NOR-289276</del>	Sensor			0002	PCE	0	0	0	1	
296	NOR-450014	Filter cartridge			0001	PCE	0	0	0	16	
297	<del>NOR-450015</del>	Gasket			0001	PCE	0	0	0	2	
298	NOR-450016	Gasket									

Item No	Part No	Description	Unit	QTY	PRICE	AMOUNT	TAX	TOTAL
299	NQR-5201	Pressure Regulator	0001 PCE	22	0.00	0.00	0.00	22.00
300	NOR-652024	Mechanical Seal	0002 PCE	2	0.00	0.00	0.00	2.00
301	OR-52025	Lip Seal	0002 PCE	3	0.00	0.00	0.00	3.00
302	W34-100003	Anti-polishing ring	0003 PCE	3	0.00	0.00	0.00	3.00
303	W34-100023	Q-ring	0014 PCE	3	0.00	0.00	0.00	3.00
304	W34-100110	911 Underliener	0008 PCE	6	0.00	0.00	0.00	6.00
305	W34-100113	O-ring	0061 PCE	3	0.00	0.00	0.00	3.00
306	W34-100131	O-ring	0010 PCE	3	0.00	0.00	0.00	3.00
307	W34-100142	9.91 Ring	0004 PCE	132	0.00	0.00	0.00	132.00
308	W34-100241	Hub bearing kit	0001 PCE	3	0.00	0.00	0.00	3.00
310	W34-100241	Hub bearing kit	0002 PCE	3	0.00	0.00	0.00	3.00
	W34-107002	Flow Gas Kit	0003 PCE	5	0.00	0.00	0.00	5.00
311	W34-107009	Q-ring	0004 PCE	2	0.00	0.00	0.00	2.00
312	W34-107018	Nut						

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

313	W3 4-107114	J:tose gasket	001	PCE	1	0	0	0	1
314	W34-107143	Hose gasket	0005	PCE	3	0	0	0	3
315	W34-107274	O-ri_tig	002	PCE	2	0	0	0	2
			001	PCE	7	0	0	0	7
316	W34-107330	O-ring				0	0	0	7
317	W34-107332	_Q-ring	002	PCE	21	0	0	0	21
318	W34-107336	_O-ring	001	PCE	21	0	0	0	21
			003	PCE	21	0	0	0	21
			0042	PCE	3	0	0	0	3
319	W34-107431	Q-ring	0019	PCE	3	0	0	0	3
320	W34-111010	Conne_ctLng !Od, lower part	003	PCE	2	0	0	0	2
321	W34-111011	Connecting md, upper part	0020	PCE	3	0	0	0	3
322	W34-111012	Screw	0001	PCE	3	0	0	0	3
323	W3 4-111015	Shim	0054	PCE	3	0	0	0	3
324	W34-111016	Big end bearing it	0004	PCE	3	0	0	0	3
325	W34-113001	Piston	0006	PCE	3	0	0	0	3
			0150	PCE	3	0	0	0	3
326	W34-113010	Gudgeon pin,							
327	W34-113012	Pis)on ri.rig it_							
328	W34-120001	_ylinder head							
329	W34-120013	Valv guid_	0008	PCE	3	0	0	0	3
330	W34-120015	Sea(ing s t for cyli er):ead replac ment	014	PCE	10	0	0	0	10
331	W34-120021	_Seal_rlng for inle_t valv:	0007	PCE	0	0	0	3	3
			011	PCE	0	0	0	3	3
332	W34-120022	eat rlng for <.J.1:titet valve	007	PCE	1	0	0	0	1
333	W34-120038	C:onnectio piece_	002	PCE	4	0	0	0	4
			0008	PCE	6	0	0	0	6
334	W34-120054	Seali_ng s t for cylinder head overh ul	005	PCE	2	0	0	0	2
335	W34-120095	Ignition co _	0004	PCE	2	0	0	0	2
336	W34-120096	Pipe							
337	W34-120098	flar:,ge							
338	W34-120099	_O-ring	006	EA	32	0	0	0	32
339	W 34-12100	Q-ring	003	EA	22	0	0	0	22
340	W34-121001	Exhaust valve, compl.	0017	PCE	6	0	0	0	6
					6	0	0	0	6
341	W34-121007	!!Jet.valve, compl.	0016	PCE					
342	W34-123001	Starting valve	0015	PCE	6	0	0	0	6
343	W 34-123021	eaUng_set	0001	PCE	1	0	0	0	1
345	W34-124002	Spark plug	0005	PCE	26	0	0	0	26
346	W34-124004	_Gasket							
			003	PCE	19	0	0	0	19
347	W34-124006	O-ring, Middle of Big Prechamber	0003	PCE	19	0	0	0	19
348	W34-124007	9-ring	0004	PCE	20	0	0	0	20
352	W34-124032	Spring	003	PCE	2	0	0	0	2
353	W34-124042	Q-rir:,g, Y_!3.ry Top_of Big Prechamber							
354	W34-124043	Sealing kit							
356	W34-124052	O-ring, Bottom of ig f:rechamber	0001	PCE	19				19
357	W34-124066			PCE	18				18
358	W34-145001	Push rod	0005	PCE	6				6

0\_ 0\_ \_0 19

CITY OF ALEXANDRIA, LOUISIANA  
DC HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
Spare Part Kit (PCC valve)  
WARTSILA OVERHAUL/MAINTENANCE SERVICES

359 W34-145018  
360 -----

.W34-156026

361 W34-1561184  
362 W34-1561300  
363 W34-1561301

Valve tappet

--

Bellows

.....

Nozzle

-

S\_hof! artri9ge \_

Short cartridge kit

--

003 PCE 38 0 0 0 38  
0003 PCE 92 0 0 0 96

0\_0\_0\_ 20

0007 PCE 3 0 0 0 3

0008 PCE 3 0 0 0 3

0009 PCE 1 0 0 0 1

0002 PCE 2 0 0 0 2

0003 PCE 2 0 0 0 2



CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUMMAINTENANCE SERVICES

364	W34-1562001	_____ \$ r ud_ring	0_001	PCE	0	0	0	0
365	W34-156383	_ Turbocharger overhaul kit	0001	PCE	2	0	0	2
366	W34-164025	!'.lain. gas_valve	0003	PCE	4	0	0	4
367	W34-164089	Sealing kit	0003	PCE	4	0	0	4
368	<del>W34-181077</del>	\$ery)ce kit (#1) Main Oil Pump	001	PCE	3	0	0	3
369	W34-182062	Sea[ ng set	004	PCE	2	0	0	2
371	W34-191051	_ ?!.laling kit	006	PCE	2	0	0	2
372	W34-191056	Shaft	0001	PCE	2	0	0	2
373	W34-191109	_ Impeller D= 220 L	0001	PCE	1	0	0	1
374	W34-200009	Screw	002	PCE	11	0	0	11
377	W34-200018	Gasket	0008	PCE	2	0	0	2
378	W34-200019	Screw	9-01.1	PCE	26	0	0	26
379	W34-200020	J?i nce p ece	002	PCE	4	0	0	4
		Sealing ring	002	PCE	4	0	0	4
		Gasket	004	PCE	2	0	0	2
380	W34-200028	O-ring	002	PCE	2	0	0	2
381	<del>W34-200029</del>							
382	W34-200056							
383	W34-200067	Pin	0003	PCE	10	0	0	10
384	W34-200081	Bellows	0017	PCE	0	0	0	2
385	W34-200084	Screw	007	PCE	15	0	0	15
386	W34-200085	Nut	008	PCE	24	0	0	24
387	W34-200334	Positioner	0008	PCE	3	0	0	3
388	W34-200341	Distance_piece	0001	PCE	10	0	0	10
389	W34-200347	Sealing ring	0002	PCE	5	0	0	5
390	W34-202009	Bellows	0_004	PCE	5	0	0	5
391	W34-202015	Screw	0005	PCE	20	0	0	20
392	W34-202053	Screw	0011	PCE	84	0	0	84
393	W34-202127	Pipe	0_005	PCE	1	0	0	1
394	W34-202128	ie	0001	PCE	0	0	0	1
395	W34-202132	Nut	0_004	PCE	52	0	0	52
396	W34-202148	eli_ng ring	0001	PCE	18	0	0	18
397	W34-202149	Nut	0_004	PCE	71	0	0	71
398	W34-202333	5-upport (Made From Hays Manufa_cture)	0003	PCE	2	0	0	2
399	W34-202334	\$ pport	0001	PCE	1	0	0	1
400	W34-202337	Distance sleeve	0001	PCE	50	0	0	50
401	W34-202338	Screw	0002	PCE	52	0	0	52
402	W34-202358	Screw	0002	PCE	48	0	0	48
					8	0	0	8
403	W34-205017	Screw	0_003	PCE	8	0	0	8
					6	0	0	6

404	W34-20520.5	Pin	CITY OF ALEXANDRIA, LOUISIANA DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -	00,0_1	PCE					
405	W34-205413	Pin	WARTSILA OVERHAUL/MAINTENANCE SERVICES	0003	PCE					
406	W34-207992	_Butt !1JY valve	Start blocki g d_evi _	0003	PCE	3	0	0	0	3
407	W34-214001		Repair kit for Main Starting Valve (includes parts 217049 to 217064)	0005	PCE		0	0	0	
408	W34-217048			0001	PCE	2	0	0	0	2
409	W34-217080	_lappet		001	PCE	2	0	0	0	2
410	W34-217083	Spring		0,0_01	PCE	2	0	0	0	2
411	W34-218131	Cc,mnecti_on piec ---	_____	001	PCE	3	0	0	0	3

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUMAINTEANCE SERVICES

412	W34-218136	( )-ring	001	EA	36	0	0	0	36
413	W34-228022	f.lange	003	PCE	1	0	0	0	1
414	W34-228056	O-ring	003	PCE	4	0	0	0	4
415	W34-228106	_Lea_d-through piece	0002	PCE	6	0	0	0	6
416	W34-228109	O- ing	0001	PCE	12	0	0	0	12
			0002	PCE	1	0	0	0	1
			0002	PCE	2	0	0	0	2
417	W34-228124	eg1ing _rjng							
418	W34-228232	f.jxing piece .							
419	W34-350790	o ne<:::tion_ piezJ	001	PCE	1	0	0	0	
420	W34-350808	O-r(ng !OJ FuelLine Crossov_er	001	PCE	12	0	0	0	12
421	W34-350815	Q-ring	001	PCE	10	0	0	0	10
422	W34-355378	9-ring	008	PCE	15	0	0	0	15
423	W34-355442	Q-ring	0001	PCE	16	0	0	0	16
424	W34-357365	U-ring	0001	PCE	9	0	0	0	9
425	W34-357456	Y_ alve body							
427	W34-387003	Glue compound							
428	W34-387006	(31ue co_mP.e>und	0001	PCE	3	0	0	0	3
429	W34-471063	F"ilter cartridge	001	PCE	1	0	0	0	
430	W34-471126	ealing set.	001	PCE	1	0	0	0	
431	W34-473063	PapE"lr insert kit (Come as 1 se! of25 paper i er:t)	0002	PCE	234	0	0	0	234
432	W34-473081	Sealing set	011	PCE	5	0	0	0	5
433	W34-474043	Sea ng set	0004	PCE	22	0	0	0	22
			001	PCE	2	0	0	0	2
434	W34-476009	ealing set_	005	PCE	3	0	0	0	3
435	W34-501108	Spare part klt_	020	PCE	3	0	0	0	3
			0001	PCE	28	0	0	0	28
436	W34-504103	Knock sensor	002	PCE	12	0	0	0	12
437	W34-504128	_lempe a_! e se11sor	0007	PCE	8	0	0	0	8
438	W34-5061211	!:_ipe u11ion	0001	PCE	2	0	0	0	2
439	W34-5061221	Reduction union	0001	PCE	2	0	0	0	2
440	W34-5061266	pipe	0001	PCE	2	0	0	0	2
441	W34-506199	Pipe unio_n	0001	PCE	4	0	0	0	4
442	W34-5_07085_	::f:emp atu _n_sor	0004	PCE	2	0	0	0	2
443	W34-5071072	Control unit CCM	0009	PCE	4	0	0	0	4
444	W34-5071249	Thermoelement	0002	PCE	2	0	0	0	2
			0001	PCE	2	0	0	0	2
445	W34-5071267	ignitio_n thod1JJe	0001	PCE	1	0	0	0	
447	W34-5071318	Electronic unit IOM	0001	PCE	6	0	0	0	6
448	W34-5071358	_\$, I strip	0001	PCE	1	0	0	0	1
449	W34-5071500	<:::apleclamr.i	0001	PCE	9	0	0	0	9
451	W34-507290	Antenna	0001	PCE	2	0	0	0	2
452	W34-507289	Converter	0001	PCE	1	0	0	0	1
455	W34-507318								
456	W34-507319	fable clip	0001	PCE	10				
457	W34-507401	Screw	0002	PCE	10				



CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

460	W34-507405	Screw	0001	PCE	2	0	0	0	2
461	W34-516292	Control unit	0002	PCE	3	0	0	0	3
462	W34-516387	Engine safety module	0003	PCE	4	0	0	0	4
463	W34-516495	Power distribution module	0001	PCE	1	0	0	0	1
464	W34-516500	Display unit	0001	PCE	1	0	0	0	1
4-	W34-16541	Pressure transducer	0002	PCE	1	0	0	0	1
			0006	PCE	3	0	0	0	4
466	W34-516596	Fuse 1A	0001	PCE	19	0	0	0	19
467	W34-516597	Fuse 4A	0001	PCE	22	0	0	0	22
468	W34-605002	(? ring	001	PCE	6	0	0	0	6
469	W3_460501.6	eli gring	0001	PCE	2	0	0	0	2
470	W34-605023	O-ring	0001	PCE	2	0	0	0	2
471	W34-605024	Retaining ring	0001	PCE	2	0	0	0	2
472	W34-800264	Seattng setfor hydraulii <u>tightening-tool</u>	0001	PCE	6	0	0	0	6
473	W34-861 220	NO NOT USED ANYMORE Sealing Kit For Hydraulic Cylinder M56	0001	PCE	3	0	0	0	3
474	W34-861003	9-ring	0001	PCE	4	0	0	0	4
475	W34-861004	0-ring	0001	PCE	4	0	0	0	4
476	W34-861062	upport r)ng.	0001	PCE	4-	0	0	0	4
477	W34-861063	<u>Support</u> ring	0001	PCE	4	0	0	0	4
478	W34-CV321	Solenoid valve	0016	PCE	4	0	0	0	4
479	W34-CV331	Solenoid valve	0003	PCE	1	0	0	0	1
480	W34-CV519	I/P converter	0003	PCE	3	0	0	0	3
481	W34-FH104	Flexi _e hose_, leak fuel drain, d_irty fuel_	0003	PCE	1	0	0	0	1
482	W_34FH110	Flexible hose	0003	PCE	2	0	0	0	2
483	W34_H213	Fl_e \b hose, lube o frC? _sep rato _n l_i g _	0001	PCE	1	0	0	0	1
4	W34-FH214	Flex bJe hos_e, lube oil to _sepa_ratorand drain	0001	PCE	1	0	0	0	1
485	W34F_H_3.01	Flexible hose, starting air inlet	0005	PCE	1	0	0	0	1
486	W34-FH402	_Flexibie hose, HT Or <u>L</u> -ater outlet	0005	PCE	4	0	0	0	4
487	W34-FH404	<u>exible</u> ose, HT water air vent	0005	PCE	3	0	0	0	3
488	W34-FH416	Flexible hose	0005	PCE	2	0	0	0	2
489	W34-FH4831	Flexible hose	0005	PCE	1	0	0	0	1
490	W34-FH4832	Flexible hose	0005	PCE	1	0	0	0	1
491	W34-FH701	-Jex_!?' _le hose, crankca_ -ir ent	0005	PCE	1	0	0	0	1
492	W34-FH708	Flexible hose	0002	PCE	1	0	0	0	1
494	W34PT201	Pressure sensor	0010	PCE	3	0	0	0	3

Item ID	Part Number	Description	Code	QTY	Unit	Price	Amount	Notes
495	W34-PT241	Lube oil pressure filter in Ja	0007 PCE	1		0.00	0.00	
496	W34-PT401	Pressure sensor	0009 PCE	4		0.00	0.00	
497	W34-PT471	Pressure sensor	0007 PCE	8		0.00	0.00	
498	W34-PT601	Pressure sensor	0006 PCE	6		0.00	0.00	
499	W34-PT700	Pressure sensor	0005 PCE	2		0.00	0.00	
500	W34-PT901	Pressure sensor	0006 PCE	6		0.00	0.00	
501	W34-PT911	Pressure sensor	0006 PCE	6		0.00	0.00	
502	W34-SF518	Speed pick-up	0012 PCE	1		0.00	0.00	
503	W34-ST173	Speed pick-up	0007 PCE	3		0.00	0.00	
504	W34-ST174	Speed pick-up	0010 PCE	2		0.00	0.00	
505	W34-ST196P	Speed sensor	0003 PCE	2		0.00	0.00	

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

506	W34-ST196S	Speed sensC> .	0003	PCE	2	0	0	0	2
507	W34-ST197P	Limit switch	0006	PCE	4	0	0	0	4
508	W34-ST197S	Limit switch	0006	PCE	8	0	0	0	8
509	W34-TE201	J:emperature sensC>r	0013	PCE	3	0	0	0	3
510	W34-TE401	Temperature sensor, before engine	0012	PCE	8	0	0	0	8
511	W34-TE402	Temperature sensor, after engine	0015	PCE	3	0	0	0	3
512	W34-TE471	Temperature sensor, before air cooler	0008	PCE	6	0	0	0	6
513	W34-TE517	Temperature sensor	0006	PCE	4	0	0	0	4
514	W34-TE600	Temperature sensor	0007	PCE	4	0	0	0	4
515	W34-TE601	Charge air temperature, inlet	0006	PCE	3	0	0	0	3
516	W34-TEZ402	Temperature sensor, hot-water outlet	0012	PCE	1	0	0	0	
517	W34-TEZ403	Temperature sensor, hot-water outlet	0003	PCE	1	0	0	0	
518	W34/R/B -191-001	Rebuild HT & LT Pump Housing With Gear (No Impeller) 191-001		PCE	1	0	0	0	





CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUL/MAINTENANCE SERVICES

**O\_N\_ SITE MAINLANCE SERVJCES**

PO. Item	Part no.	Material no.	Product no.	Description	Qty	Notes
000100	100003	PAAE042656	PAAE264151	Anti-polishing ring	20	
000200	100015	3371495	PAAE264151	O-ring	2	
000300	100023	3372041	PAAE264151	O-ring	40	
000400	111016	PABA268993	PAAE264151	Big end bearing kit	20	
000500	113012	PAAE027526	PAAE264151	Piston ring kit	20	
000600	120015	4092L004400	PAAE264151	Sealing set for cylinder head replacement	20	
000700	120099	3371345	PAAE264151	O-ring	40	
000800	120100	3371273	PAAE264151	O-ring	20	
000900	124002	PABA209982	PAAE264151	Spark plug	20	
001000	124026	0016E007600	PAAE264151	Valve seat	20	
001100	124028	0016E008000	PAAE264151	Valve	20	The price is for the given quantity.This item has to be specially procured, and shall not be cancelled or returned.
001200	124029	PAAE029496	PAAE264151	Rod	20	The price is for the given quantity.This item has to be specially procured, and shall not be cancelled or returned.
001300	124043	PAAE065493	PAAE264151	Sealing kit	20	
001400	124047	PAAF001455	PAAE264151	Prechamber, lower part	20	
001500	124066	PABA288294	PAAE264151	Spare part kit	20	
001600	145031	PAAC307734	PAAE264151	O-RING	20	Spare part kit includes: 1. Rod and valve assy. 2. Valve seat 3. Cotter pieces (2pcs.) O-ring kit needs to be purchased separately
001700	156161	3372124	PAAE264151	O-ring	4	
001800	164076	PAAE065983	PAAE264151	Filter	20	
001900	164125	PAAF107044	PAAE264151	Cartridge set	20	
002000	207926	PAAF940240	PAAE264151	Pilot valve	1	
002100	217048	PAAF862593	PAAE264151	Repair kit	1	
002200	355608	3340006	PAAE264151	Gasket	2	
002300	357365	PAAE057839	PAAE264151	O-ring	2	
002400	377002	9422591	PAAE264151	O-ring	10	
002500	471063	PAAE142411	PAAE264151	Filter candle	78	
002600	471126	PAAE088809	PAAE264151	Sealing set	1	
002700	473081	PAAF023641	PAAE264151	Sealing set	1	
002800	474043	PAAE113470	PAAE264151	Sealing set	1	
002900	476009	PAAE140871	PAAE264151	Sealing kit	1	
003000	476018	PAAC000839	PAAE264151	Sealing ring	4	
003100	476019	3371297	PAAE264151	O-ring	4	
003200	476023	3371373	PAAE264151	O-ring	4	
003300	476027	PAAC000833	PAAE264151	Sealing ring	4	
003400	501108	PAAF281416	PAAE264151	ASSEMBLY	20	
003500	504103	PAAF230023	PAAE264151	Knock sensor	20	
003600	CV947	PABA129242	PAAE264151	Solenoid valve	1	
003700	CV957	0017H020900	PAAE264151	Solenoid valve	1	

CITY OF ALEXANDRIA, LOUISIANA  
 DG HUNTER ELECTRICAL POWER PLANT UNITS 5-11 -  
 WARTSILA OVERHAUUMMAINTENANCE SERVICES

PO. Item	Part no.	Material no.	Product no.	Description	Qty	Notes
003800	156500	PAAC302471	PAAE264151	O-ring	2	
003900	156501	3371500	PAAE264151	O-ring	2	
004000	181077	PAAE143689	PAAE264151	Service kit	1	
004100	182017	PAAE095837	PAAE264151	Flexible coupling	1	
004200	182062	PAAE163597	PAAE264151	Sealing kit	1	
004300	183003	7890367	PAAE264151	Thermostatic element	5	
004400	183087	PAAF141277	PAAE264151	Service kit	5	183005 IS REPLACED BY 183087
004500	191012	PAAE032377	PAAE264151	Bearing	2	
004600	191013	5130237	PAAE264151	Bearing	2	
004700	191051	PAAE102064	PAAE264151	Sealing kit	2	
004800	473063	PAAF023637	PAAE264151	Paper insert kit	1	The kit includes 25 paper inserts
004900	473081	PAAF023641	PAAE264151	Sealing set	1	
005000	FH108	PAAF026861	PAAE264151	Flexible hose	1	The price is for the given quantity.This item has to be specially procured, and shall not be cancelled or returned.
005100	FH110	6190299	PAAE264151	Flexible hose	1	The price is for the given quantity.This item has to be specially procured, and shall not be cancelled or returned.
005200	FH213	PAAE028986	PAAE264151	Flexible hose, lube oil from separator and filling	1	
005300	FH214	PAAE028986	PAAE264151	Flexible hose, lube oil to separator and drain	1	
005400	FH402	6190122	PAAE264151	Flexible hose, HT water outlet	4	
005500	207927	PAAE127114	PAAE264151	Spare part kit	1	
005600	100113		PAAE264151	O-ring	20	
005700	111004		PAAE264151	Screw	80	
005800	111012		PAAE264151	Screw	80	
005900	111015		PAAE264151	Shim	20	
006000	PT5011A		PAAE264151	Cylinder pressure sensor	20	
006100	TE5011A		PAAE264151	TEMPERATURE SENSOR	20	TEMP SENSOR AND POCKET SOLD SEPARATELY, SEE LINE 6200
006200	TESOIIA-1		PAAE264151	PROTECTION WELL	20	
006300	TE7041A		PAAE264151	Thermoelment	40	

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, -**  
**WARTSILA OVERHAUL/MAINTENANCE SERVICES**

**OFF-SITE WORKSHOP SERVICES**

<b>PO. Item</b>	<b>Part no.</b>	<b>Material no.</b>	<b>Product no.</b>	<b>Description</b>	<b>Qty</b>	<b>Notes</b>
000100	156161	3372124	PAAE264151	O-ring	4	
000200	476009	PAAE140871	PAAE264151	Sealing kit	1	
000300	476018	PAAC000839	PAAE264151	Sealing ring	4	
000400	476019	3371297	PAAE264151	O-ring	4	
000500	476023	3371373	PAAE264151	O-ring	4	
000600	476027	PAAC000833	PAAE264151	Sealing ring	4	
000700	474043	PAAE113470	PAAE264151	Sealing set	1	
000800	156383	PAAF677980	PAAF677980	Turbocharger overhaul kit	2	The Thrust collar must be replaced as a pair when upgrading to the new Thrust bearing type. See Spare parts noticeWS15P462.
000900	120054	PAAF530251	PAAE264151	Sealing set for cylinder head overhaul	20	
001000	123021	PAAE157048	PAAE264151	Sealing set	10	
001100	120013	00128025300	PAAE264151	Valve guide	40	
001200	120021	0012B024800	PAAE264151	Seat ring for inlet valve	20	Standard size 00128024800
001300	120022	PAAF198061	PAAE264151	VALVE SEAT RING EXHAUST 40° +IMM	40	VALVE SEAT RING EXHAUST 40° +IMM
001400	120017	PAAE162625	PAAE264151	O-RING	40	HI TEMP ORING
001500	121006	9500067	PAAE264151	Exhaust valve	20	
001600	121012	00128024600	PAAE264151	Inlet valve	10	
001700	121003	PAAE098072	PAAE264151	Rotocap	10	
	474 003			New Lube Oil Cooler	1	Spare
	476 001 (0091)			Charge Air Coolers	1	(Spare)To Help Speed Up The Work & Liner Boxes
	504128			Exhaust Temp	20	Per Engine
	5071249			Liner Temp	40	Per Engine
	516 541			Peak Pressure SENSORS	20	Per Engine

**CITY OF ALEXANDRIA, LOUISIANA**  
**D.G. HUNTER ELECTRICAL POWER PLANT UNITS 5, 6, -**  
**WARTSILA OVERHAUMAINTEANCE SERVICES**

PO. Item	Part no.	Material no.	Product no.	Description	Qty	Notes
	<b>ASK LUIS</b>			Re-Gasket The Charge Air Housing	1	Per Engine