



May 18th, 2023

JPS Request for Proposal # 950328:

Gas Turbine (GT) 3- Hot Gas Path Inspection (HGPI) Non-Capital Spares

Dear Vendors

Only Electronic submissions will be accepted, using ShareFile by Citrix. All uploads will be confidential. Additional information on this software can be accessed by clicking the links below:

- Basic Client Guide <https://citrix.sharefile.com/share/view/s1bff52f8d434781a>
- Training (video) <https://www.sharefile.com/support/training>

DIRECTORS:

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HON. DANVILLE WALKER, O.J., J.P.

HYUNG CHAE YANG

RFP 950328 Activities are guided by the dates stated in the Calendar of Events highlighted in Section 4 of this RFP. Observing these dates,

- 1) Section 2.1 (Points of Contact) provides Instructions to submit questions via email only
- 2) A combined response to questions will be posted on the JPS website only
- 3) Respondents must confirm their intention to bid in order to be setup in JPS ShareFile folder
- 4) Access to individual vendor folders will be given at least 5 days before the bid closes to eliminate any issues for bid upload by RFP deadline.
- 5) Files must be accurately labelled/named. Financial Proposal must be a separate file from your Technical Information.
- 6) ShareFile Access will be removed when the RFP closes.

Bids will not be accepted via email.

Regards

JPS Purchasing Dept.

**JAMAICA PUBLIC SERVICE
COMPANY LIMITED**

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Jamaica Public Service Company Limited

Request for Proposals

For

NON-CAPITAL SPARES FOR
GAS TURBINE 3 FRAME V (P/NT)
AT BOGUE POWER STATION

RFP# 950328

MAY 2023

1.1 INTRODUCTION

The Jamaica Public Service Company intends to engage a certified service provider for the execution of a Hot Gas Path Inspection on its Frame 5 (P/NT) generating plant. GT-3 as the unit is called; Serial Number 214406 is located at Bogue Power Station at the western end of the island. The GT3 Hot Gas Path inspection is expected to tentative starting on October 3, 2023.

These components are to be delivered to Bogue Power Station by August 31, 2023

1.2 BACKGROUND

Jamaica Public Service Company Limited (JPS) is an integrated electric utility company engaged in the generation, transmission and distribution of electricity throughout the island of Jamaica. JPS owns and operates 28 generating units and also purchases power from seven independent power producers (IPP). JPS assets include conventional thermal plants (335 MW), hydro and wind (29.12 MW), 50 substations, approximately 1200 km of transmission lines and 20,534 km of distribution lines.

The common shares of JPS are held 40% by Marubeni Corporation through its subsidiary Marubeni Caribbean Power Holdings (“MCPH”); 40% by Korea East West Power Company (“KEWP”); 19.9% by the Government of Jamaica (“GOJ”) and the remaining 0.1% by a group of minority shareholders.

The Office of Utilities Regulation (“OUR”) is the independent regulatory agency with responsibility for regulating the electricity sector in Jamaica.

Along with the provision of electricity, the JPS is a key partner in national development. The Company has a vibrant corporate social responsibility portfolio and makes significant

contributions in the areas of education, sports, and community development. The Company also has a strong environmental focus and carries out its operations in an environmentally friendly manner.

JPS has the following status with Jamaica Customs – **Authorized Economic Operator (AEO)**. It is an internationally recognized quality mark which indicates that the JPS supply chain is secure, and that the JPS customs' procedures and policies are compliant. With this designation, JPS Warehouse and Procurement Teams are subject to audit and monitoring by Jamaica Customs.

Geography of Jamaica

Jamaica lies 145 kilometers south of Cuba and 160 kilometers west of Haiti. Its capital city, Kingston, is about 920 kilometers southeast of Miami. At its greatest extent, Jamaica is 235 kilometers long, and it varies between 35 and 82 kilometers wide, with an area of 10,911 squarekilometers.

The highest area is that of the Blue Mountains. The crest of the ridge exceeds 1,800 meters. The highest point is Blue Mountain Peak at 2,256meters. Two types of climate are found on Jamaica. An upland tropical climate prevails on the windward side of the mountains, whereas a semiarid climate predominates on the leeward side. Warm trade winds from the east and northeast bring rainfall throughout the year. The rainfall is heaviest from May to October, with peaks in those two months. The average rainfall is 196 centimeters per year.

Temperatures are fairly constant throughout the year, averaging 25 °C to 32 °C in the lowlands and 15 °C to 22 °C at higher elevations. Temperatures may dip to below 10 °C at the peaks of the Blue Mountains.

Jamaica lies at the edge of the hurricane track; as a result, the island usually experiences indirect storm damage. Hurricanes occasionally strike the island with full force, including winds speeds up to 240km/hr.

1.3 PROJECT SCOPE / OBJECTIVES

1. Outline cost proposal with payment terms and technical specification of the components provided
2. Outline warranty coverage that govern the provision of the components
3. Outline lead time for the delivery of each component

Terms of Agreement

All materials and component parts supplied or used shall be new and shall conform to specifications of the highest quality and shall be obtained only from merchants or manufacturers of the highest repute; and further all work carried out and materials and component parts supplied or used shall be such as may be approved by JPS.

- Provide adequate after-sales support: readily accessible spare parts inventory, Competent personnel to provide technical and general assistance.

1.4 Definitions

“**Bidder**”, “**Bidder**”, “**Vendor**” or “**Contractor**” shall mean JPS’ qualified service provider acting in the role of the prime contractor who responds to this RFP.

“**Bid/ Proposal**” shall mean the Bidder’s formal written response indicating committed price.

All references to JPS or Company shall mean the Jamaica Public Service Company Limited.

“**Services**” means services ancillary to the research data gathering and submission

“**Approved**” means approved by the JPS or its delegated representatives.

“**Delivery**” means completion of the research findings and the requisite recommendations submitted

“**Days**” means calendar days according to the Gregorian calendar.

“**The Contract**” means the final agreement entered into between the JPS and the Contractor signed by the parties, including any attachments, addenda, and appendices thereto and all documents incorporated by reference therein.

“The Contract Price” means the price payable to the Bidder under the Contract for the full and proper performance of its contractual obligations.

2.0 GENERAL INSTRUCTIONS TO BIDDERS

The Bidder is expected to confirm intent to bid by date stated in Calendar (Section 4). Failure to comply will result in Bidder being unable to participate in bid. Bidder must examine all instructions, terms specifications in the Bidding Documents. Failure to furnish all information required, will be at the Bidder’s risk and may result in the rejection of its bid.

2.1 Points of Contact

All communications and questions with JPS regarding this RFP must be directed to the following Points of Contact (POC) via email:

Name: **Alexa Brown**
 Aldeen Morris

agbrown@jpsco.com

cc: apmorris@jpsco.com

Email Subject: **JPS RFP # 950328-GT3 HGPI Non-Capital Spares**

2.2 Communication Regarding the RFP

Unauthorized communications concerning this RFP with other Company employees, executives or Contractors may result in immediate disqualification.

All communication and questions should be submitted in writing, electronically to the POC. In order to ensure consistency in the information provided to Bidders, responses to questions received will be communicated to all participants, without revealing the source of the inquiries.

Only written responses will be considered official and binding. JPS reserves the right, at its sole discretion, to determine appropriate and adequate responses to questions and requests for clarification.

A Bidder contact should be provided for all questions and clarifications arising from the Proposal Queries should include:

- a) Company's name, company address and phone number, contact person, email address, position.
- b) References to specific points within this RFP using the Section number as reference
- c) Clear and concise questions

2.3 Period of Validity of Bids

Bids shall remain valid for *ninety (90) days* after submission. A bid valid for a shorter period may be rejected by the Company as non-responsive. In exceptional circumstances, the Company may solicit the Bidder's consent to an extension of the period of validity. The request and responses thereto shall be made in writing.

2.4 RFP Amendment and Cancellation

At any time prior to the deadline for the submission of bids, the Company may for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding documents by amendment.

The amendment will be done in writing to all prospective Bidders who have received the Bidding Documents.

In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing their bids, the Company may, at its discretion, extend the deadline for the submission of Bids.

JPS reserves the unilateral right to cancel or reissue the RFP at its sole discretion. Bidders will respond to the final written RFP and any exhibits, attachments and amendments.

2.5 Bid Withdrawal

A Bidder may withdraw a submitted bid at any time up to the deadline for submitting bids. To withdraw a bid, the Bidder must submit a written request electronically, or via fax, signed by an authorized representative, to JPS before the deadline for submitting bids. After withdrawing a previously submitted bid, the Bidder may submit another bid at any time up to the deadline for submitting bids.

2.6 Confidentiality of Data

The Bidder should recognize that JPS operates in a sensitive business environment and, for that reason the Bidder must treat the materials and data provided by JPS as confidential. The successful Bidder may be required to agree to and execute the Confidentiality agreement.

3.0 PREPARATION OF BIDS

The bid shall be prepared in two (2) parts, technical and financial. The technical part should not contain any pricing information. The financial proposal shall be separate and contain price information. The uploaded proposals must include below:

A. Technical Proposal

Reference is made to Appendix II – General Information:

- (a) Evidence of establishment, type of organization, size, and professional affiliate
- (b) Executive Summary indicating why your firm should be chosen
- (d) Provide the names and profiles of the top 3 executives

-
- (e) Audited Financial Statements for the last 2 years
 - (f) Current/valid insurance document
 - (g) References – provide 3 references that you have provided similar parts in the past. Include contact person and phone number.

B. Financial Proposal

- a) Proposal must be submitted. Your detailed proposal should clearly show
 - i. Unit Cost of Each component
 - ii. Lead times for each component
 - iii. Payment terms

- b) Draft Contract for this type of provision

3.1 Bid Prices

Prices quoted by the Bidder and further negotiated and agreed between the bidder and JPS shall be fixed for the duration of the Contract and not subject to variations on any account. Prices should be quoted in **United States Dollars**.

3.2 Proposal Withdrawal

The Bidder may modify or withdraw its proposal after the proposal's submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for submission of proposals. To withdraw a proposal, the Bidder must submit a written request electronically or signed document by an authorized representative to JPS before the deadline for submitting proposals. After withdrawing a previously submitted proposal, the Bidder may submit another proposal at any time up to the deadline for submitting proposals.

3.3 Cost of Proposal Preparation

The Bidder shall bear all costs associated with the preparation and submission of its bid, and the JPS will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

3.4 Bidder's Eligibility and Qualifications

(a) In the case of a Bidder offering to supply goods under the Contract which the Bidder did not manufacturer or otherwise produce, the Bidder has been duly authorized by the goods' manufacturer or producer to supply the goods in the Purchaser's country.

(b)The Bidder is to confirm the financial, technical and production capability necessary to perform on the Contract.

3.5 Documents establishing Goods' Eligibility and Conformity to Bidding Documents

The Bidder shall furnish, as part of its bid, documents establishing conformity to the Bidding Document of all components which the Bidder proposes to supply under the Contract.

3.6 Period of Validity of Bids

Bids shall remain valid for ninety (90) days, after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period may be rejected by the Purchaser as non-responsive.

4.0 SUBMISSION OF BIDS AND SELECTION CRITERIA

4.1 Bid Response

All responses must be in English Language. Your bid response must be presented in two (2) separate packages, namely Financial/Costing and Technical Specifications. The deadline to upload bids is **11:59p.m. on Friday June 2nd, 2023.**

RFP CALENDAR		
ACTIVITY	DUE DATE	RESPONSIBILITY
RFP date	May 18 th 2023	JPS
Bidder submits questions on RFP	May 23 rd 2023	Bidder
Final date to respond to all queries	May 25 th 2023	JPS
Bidder confirms intention to bid	May 26 th 2023	Bidder
Confirmed Bidder given Shared file access to upload bid	May 30 th 2023	Bidder
Completion of RFP and deadline for submission of bids to JPS	11:59pm June 2 nd 2023	Bidder
Closed Bid Opening	June 5 th 2023	JPS

The Company may, at its discretion, extend this deadline for the submission of bids, in which case all rights and obligations of the Company and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

Observing the deadline of the RFP, responses should be submitted electronically with appropriately file labels/names, and information required in Appendices I and II. Adobe Pdf and Power

Point file formats are acceptable. Proposal must be signed by official authorized personnel who can bind the contractor to the provision of the RFP.

4.2 Late Bids

Any bid received by the Company after the deadline to upload bids, pursuant to **Section 4.1**, will be rejected.

4.3 Proposal Signing

All proposals must be signed by an official agent or representative of the company submitting the proposal.

4.4 Proposal Rejection

Bids received after the deadline for submission of bids will be rejected. Any bid received that does not meet the requirements of this RFP may be considered to be non-responsive, and the bid may be rejected. Bidders must comply with all of the terms of this RFP. JPS may reject any bid as being non-responsive that does not comply with the terms, conditions, and characteristics of this RFP or the key criteria for selection.

4.5 Right of Rejection

JPS reserves the right, at its sole discretion, to reject any and all bids or to cancel this RFP in its entirety.

JPS reserves the right to reject any and all proposal(s) at its sole and absolute discretion. Submission of a proposal constitutes acknowledgement that the Bidder has read and agrees to be bound by such terms and conditions as outlined in the Bid document.

JPS reserves the right to hold discussions/negotiations with OEM directly in arriving at final product specifications, warranty, pricing and delivery. This will not stop finalizing proposal directly with 3rd parties or OEM distributors.

5.0 SELECTION PROCESS AND EVALUATION CRITERIA

JPS will open bids privately. See calendar for date (Section 4). A selection committee consisting of JPS staff members will evaluate all responses. Based on the preliminary evaluation of the responses, we reserve the right to short list respondents.

Selection will be based on the contractor's responsiveness to the RFP and total price quoted (including recurring costs).

5.1 Determination of Responsive Bids

The company will examine the bids to ensure conformance to all the instructions listed in the Instructions to Bidders.

Omission of any of the requisite documentation may result in the bid being declared non-responsive and therefore rejected.

JPS internal scoring method values the following proposal attributes (order of presentation here does not reflect priority)

TECHNICAL CRITERIA	Result
Technical Specification	Pass or Fail

COMMERCIAL EVALUATION CRITERIA	Score (%)
Price	90
Payment Terms	5
Lead Time	5
Total	100

5.2 JPS Bid Evaluation Discretion

JPS at its discretion may:

- Select a bid other than the lowest priced if JPS determines, at its sole and absolute discretion, that JPS' interests will best be served by doing so;
- Withhold any information used in conducting the evaluation;
- Reject any or all bids and enter into negotiations with other third party non-bidders, or any Bidder or Bidders that JPS may choose;
- Seek clarification from any Bidder regarding bid information and may do so without notification to any other Bidder;
- Continue the review procedure until a Bidder is selected successfully or until JPS chooses to reject all bids;
- Accept any bid or alternate as submitted without negotiations;
- Require revisions to, corrections of, or other changes to any bid submitted as a condition to its being given any further consideration;
- Select for negotiations only the overall best bids or alternate submitted, as determined by JPS;
- Truncate negotiations with a Bidder if JPS determines that progress towards a contract is not proceeding in a reasonable manner or at a reasonable pace;
- Open negotiations with additional Bidders or non-bidders.

5.3 Bid Discrepancies

Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between words and figures, the amount in words shall prevail.

If the contractor does not accept the correction of errors, its bid shall be rejected.

The Company may waive any minor informality or non-conformity or irregularity in a Bid, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

5.4 Right to Negotiate

Upon evaluation of the submitted bids, JPS reserves the right to enter into negotiations with one or more Bidders (not necessarily the Bidder with the lowest deliverable price submission) that appear to have submitted a bid that meets the needs and requirements of JPS. Negotiations could include, but are not limited to, price and the terms and conditions of this RFP. However, issues may arise that JPS may not negotiate due to policies or strategies, and an impasse could arise. If, for any reason, a Bidder and JPS cannot arrive at a mutual agreement that would result in the issuance of a contract, JPS reserves the right to terminate negotiations, to reject the bid, and to continue negotiations with other responsive Bidders that may lead to the issuance and award of a contract.

5.5 Written Clarification

JPS reserves the right, at its sole discretion, to request clarifications of bids or to conduct discussions for the purpose of clarification with any or all Bidders. The purpose of any such discussions will be to ensure full understanding of the bid proposal. Discussions will be limited to specific sections of the bid identified by JPS and, if held, will be after initial evaluation of the bids. If clarifications are made as a result of such discussion, the Bidder will submit such clarifications electronically. Refusal to respond to JPS' request for clarifications may be considered non-responsive and be used as grounds for rejection of the bid.

5.6 Contract Award

The award will be based on the proposal that is most responsive to the requirements of JPS and that which will offer the greatest value for JPS.

Issuance of this Bid does not constitute a commitment by JPS to award any contract or to purchase parts as per the Offer made in response to this RFP.

JPS reserves the right to invite any or all Bidders to provide clarification regarding their proposals.

The Contract shall be interpreted in accordance with the laws of the Purchaser's country.

6.0 Bidder Qualifications and Requirements:

Your quote should include, but not limited to:

a) **Terms of payment.** JPS standard terms of payment is Net 60 days of Invoice date

b) **Warranty Terms**

The Bidder shall warrant that during the term of the Agreement the services provided by it hereunder will be performed in a workmanlike manner and in accordance with the JPS safety regulations and reasonable commercial standards.

The Bidder warrants that the goods supplied under the Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Bidder further warrants that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except insofar as the design or material is required by the Purchaser's Specifications) or from any act or omission of the Bidder, that may develop under normal use of the supplied Goods in the conditions obtaining in the country of final destination. This warranty shall remain valid for a minimum of twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered (and commissioned) to the final destination indicated in the Contract.

The Purchaser shall promptly notify the Bidder in writing of any claims arising under this warranty. Upon receipt of such notice, the Bidder shall, depending on which of the methods can be achieved more expeditiously with reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Purchaser and under the terms and conditions as if the replacement Goods or parts were being delivered to the Company for the first time.

If the Bidder, having been notified, fails to remedy the defect(s) within a reasonable period, the Purchaser may proceed to take such remedial action as may be necessary, at the Bidder's risk and expense without prejudice to any other rights which the Purchaser may have against the Bidder.

7.0 GENERAL CONDITIONS OF CONTRACT

7.1 Proprietary Content

JPS understands that certain elements of the Bidder's proposal may contain information, including pricing, that is competitively sensitive. JPS acknowledges that all information furnished in the proposals will be for the exclusive use of JPS, in evaluating and selecting a Contractor for the supply of goods and services all parties will respect the sensitive nature of that information in accordance with sound commercial practices.

7.2 Prices

Prices listed by the Bidder of the service to be provided under the Contract shall not, with the exception of any price adjustments authorized, negotiated and agreed on by Contractor and JPS, vary from the prices quoted by the Contractor in its bid.

7.3 Terms of Payment

The JPS shall pay the Contractor for the services within sixty (60) days of receipt of the Contractor's undisputed invoice.

7.4 Contract Amendments

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the duly authorized agents of both parties.

7.5 Subcontract

The Contractor shall notify the JPS in writing of all subcontracts awarded under the Contract if not already specified in his bid. Such notification, in his original bid or later, shall not relieve the contractor from any liability or obligation under the Contract with the JPS.

If the bidder submitting a proposal must outsource or contract any work to meet the requirements contained herein, this must be clearly stated in the proposal. Additionally, all costs included in proposals must be all-inclusive to include any outsourced or contracted work. Any proposals which call for outsourcing or contracting work must include a name and description of the organizations or persons being contracted.

7.6 Delays in the Contractor's Performance

If at any time during the performance of the Contract, the Contractor or its subcontractor(s) should encounter conditions impeding timely performance of the services, the Contractor shall promptly notify the JPS in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Contractor's notice, the JPS shall evaluate the situation and may at its discretion extend the Contractor's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract, or terminate the Contract in accordance with the provision of clause **7.8**

7.7 Penalties

Failure to submit the Deliverables to the Company within the timelines specified will result in the Contractor being liable to the company payments of sums equivalent to ten percent (10%) of the value of compensation and or liquidated damages payable by the Company in respect of such Deliverable.

7.8 Termination

The JPS may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Contractor, terminate the Contract in whole or in part:

(a) If the Contractor fails to perform any other obligation(s) under the Contract.

(b) The JPS may by written notice sent to the Contractor, terminate the Contract, in whole or in part, at any time for its convenience by giving seven (7) working days' notice. The notice of termination shall specify that termination is for the JPS convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.

7.9 Force Majeure

The Contractor shall not be liable for liquidated damages or termination for default, if and to the extent that, the delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For the purposes of this clause, "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the JPS either in its sovereign or contractual capacity, wars or revolutions, fires, floods, hurricanes, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Contractor shall promptly notify the JPS in writing of such condition and the cause thereof. Unless otherwise directed by the JPS in writing, the Contractor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

Appendix I

Component Information

Unit Name	GT-3
Maximum Capacity Rating (MCR)	20.5 MW
Turbine Serial number	214406
Frame Size	MS5001 P/NT
Fuel Type	No. 2 Distillate
Control System	TRISEND
Job Type	Hot Gas Path Inspection Components

Appendix II

**REQUEST FOR PROPOSAL (RFP)
GT3 HGPI Non-Capital Spares
RFP #950328**

GENERAL INFORMATION

Name of Organization: _____

Address: _____

Key Contact: _____

Title: _____

Telephone Numbers: _____

Email Address: _____

Appendix III

Response Template

Name of Bidder: _____

Signature of Bidder: _____

Payment Terms

Purchaser's preference: Net 60 days Bidder's proposal: Net _____ days

Price Schedule in United States Dollars

Along with detailing all charges in their proposal, supplier is required to complete below which will show the costs for these components.

COMPONENT RATE SHEET

Using the template below, please costing and lead time for all listed components.

Line	Description	Quantity	Lead Time (Days)	Unit Cost (USD)	Total Cost (USD)
1	OIL PUMP PN# 277A2906P001	1			
2	HYD FILTER ASSY PN# 315A2660P001	2			
3	MAG PICKUP PN# 185A1117P011	2			
4	VALVE SERVO PN# 312A6077P010	1			
5	SOLENOID VALVE PN# 226A1413P004	3			
6	THERMOCOUPLE PN# 248A4123P001	4			
7	THERMOCOUPLE PN# 315A9332P001	4			
8	CONNECTOR PN# 287A1399P021	12			
9	THERMOCOUPLE PN# 302A4006P001	18			

10	CHECK VALVE -REFER PMU 0029 PN# 348A5821P002	20			
11	THERMOCOUPLE TYPE K PN# 297A0585P001	4			
12	BOLT HEX HEAD PN# N14P35028	100			
13	BOLT PN# 293A0913P014	10			
14	BRACKET PN# 287A1202P001	1			
15	EXPANSION JOINT PN# 158A3534P003	22			
16	PN# 248A4850G001	4			
17	EXPN JOINT (1 SET) PN# 211A8211P001	4			
18	GASKET PN# 324A9109P107	30			
19	GASKET SET PN# 184A7012P001	2			
20	GASKET PN# 302A4594P002	5			
21	GASKET PN# 302A4594P004	2			
22	GASKET PN# N5606P0300G11	30			
23	GASKET PN# 302A4597P007	2			
24	GASKET PN# 318A9713P008	18			
25	GASKET PN# 318A9713P016	40			
26	GASKET PN# 329A7233P002	1			
27	GASKET PN# 372A1159P013	6			
28	GASKET PN# 372A1159P013	6			
29	GASKET PN# 318A9711P008	12			
30	GASKET PN# 324A9109P005	10			
31	GASKET PN# 324A9109P006	16			
32	GASKET PN# 329A7233P005	20			
33	GASKET PN# 302A4597P010	2			
34	GASKET SET PN# 184A7012P001	1			
35	GASKET SET PN# 302A4597P005	2			
36	GASKET SET PN# 302A4597P011	2			
37	GASKET ORIFICE PLATE PN# 344A6526P001	2			
38	HX HD CAP PN# N14P35010	30			
39	INSULATION PN# 158A2731P006	4			
40	KEY PN# 215A3148P001	2			
41	LOCK NUT PN# 286A6674P001	2			

42	LOCK WASHER PN# 286A6675P001	2			
43	LOCK PLATE PN# 294A0150P029	12			
44	LOCK PLATE PN# 294A0151P006	4			
45	LOCK PLATE PN# 294A0150P004	4			
46	GASKET SET...6 PN# 211A8235G001	6			
47	NUT PN# 286A6670P001	4			
48	NUT PN# N204P00035	80			
49	NUT PN# N258P00033	80			
50	PIN PN# 184A8071P001	2			
51	DOWEL PIN PN# 158A5457P006	75			
52	DOWEL PIN PN# 158A5457P014	60			
53	DOWEL PIN PN# 158A5457P027	4			
54	DOWEL PIN PN# N507P03832	6			
55	DOWEL PIN PN# N509P02512	5			
56	SUBPLATE PN# 185A1868P001	1			
57	PLATE PN# 315A2661P001	1			
58	FN PROTECTION CAP PN# 156A1813P025	2			
59	BOLT HEX HEAD PN# N14P33032	300			
60	BOLT HEX HEAD PN# N14P35040	10			
61	BOLT HEX HEAD PN# N14P29020	80			
62	BOLT HEX HEAD PN# N14P33048	80			
63	BOLT HEX HEAD PN# N14P35048	4			
64	BOLT HEX HEAD PN# N14P33044	160			
65	BOLT HEX HEAD PN# N14P35048	30			
66	BOLT PN# N22P23012	4			
67	CAP SCREW PN# N170P29036	10			
68	CAP SCREW PN# N170P25010	3			
69	CAP SCREW PN# N170P25040	7			
70	SHIM PACKAGE PN# 918B0417P071	1			
71	LOCK NUT PN# N265BP00035	60			
72	LOCK NUT PN# N265BP00033	200			
73	PIN-GROOVED PN# N513P03812	4			

74	THR CUT SCREWS PN# N139P21005	2			
75	STL THD CUT SCREW PN# N139P21006B	10			
76	STRIP PN# 184A8110P002	4			
77	BB STUD PN# 298A0521P046	4			
78	SUPPORT PN# 235A6911P049	1			
79	SUPPORT PN# 225A8425P001	20			
80	THERMOCOUPLE PN# 297A0582P004	18			
81	PACKING (50FT ROLL) PN# 158A3820P002	150			
82	BOLT PN# 225A8257P002	15			
83	BOLT/WASHER PN# 225A8256P001	30			
84	SEAL END T/PCE PN# 256A1893P001	20			
85	LOCKPLATE (REFER PMU0048) PN# 193B7869P003	15			
86	X F RETAINER PN# 919B0310P001	20			
87	BUCKET SEAL PIN PN# 312A6585P001	120			
88	BUCKET SEAL PIN PN# 312A6586P001	120			
89	BUCKET LOCKTWIST PN# 239B5791P003	120			
90	BUCKET LOCKTWIST PN# 239B5791P003	90			
91	BUCKET SEAL PIN PN# 211A8731P002	90			
92	BUCKET LOCKTWIST PN# 239B5791P004	90			
93	BUCKET LOCKTWIST PN# 239B5791P004	90			
94	NOZZLE CLAMP PN# 184A8381P001	2			
95	BB STUD PN# 298A0521P046	4			
96	BOLT PN# 293A0913P014	8			
97	ECCENTRIC PIN PN# 184A7869P002	2			
98	LOCKING BAR PN# 184A7822P001	2			
99	LOCK NUT PN# 974A0953P009	4			
100	NOZZLE CLAMP PN# 184A8375P001	2			
101	NOZZLE CLAMP PN# 184A8376P001	2			
102	LOCKING BAR PN# 184A7822P002	2			
103	PLUG PN# 248A4777P001	4			
104	BOLT HEX HEAD PN# N14P29036	4			
105	SEAL (FOR HI-TECH UNITS) PN# 199C4397P001	10			

106	LOCKPLATE PN# 294A0151P006	4			
107	NOZZLE CLAMP PN# 114A8838P001	4			
108	BORESCOPE PLUG PN# 192B2915P001	4			
109	BORESCOPE PLUG PN# 248A4849P001	4			
110	TUBE ADAPTOR PN# 255A4330P001	4			
111	TUBE PN# 279A1763G001	4			
112	PLUG BORESCOPE PN# 237B2115P001	5			
113	PLUG PN# 237B2115P002	2			
114	ADAPTOR PN# 193B7194P001	4			
115	DOWEL PIN PN# N507P01336	7			
116	LOCKING BAR PN# 184A7822P002	2			
117	BOLT HEX HEAD PN# N14P29036	4			
118	PIN PN# 237B2123P001	12			
119	PLATE PN# 279A1772P001	12			
120	LOCKPLATE PN# 294A0150P003	24			
121	HX HD CAP PN# N14TP25020	24			
122	PIN PN# 237B2122P001	2			
123	LOCKING BAR PN# 184A7822P001	1			
124	CONNECTOR PN# 287A1399P021	4			
125	PLUG PN# 248A4777P001	3			
126	BORESCOPE PLUG PN# 192B2915P001	1			
127	PLUG BORESCOPE PN# 237B2115P001	3			
128	PLUG PN# 237B2115P002	1			
129	ADAPTOR PN# 193B7194P001	4			
130	BORESCOPE PLUG PN# 248A4849P001	4			
131	Keys P/N: 315A2333P001	34			
132	Keys P/N: 315A2334P001	2			
133	Pin, locating P/N: 158A5457P006	36			
134	Keys, Seal P/N:315A2334P002	2			
135	Keys, Seal P/N:315A2333P002	28			
136	Pins, Locating P/N: 158A5457P014	30			

137	Xfire Tube P/N:215A4561G001	10			
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