

UNDERTAKING JT1.13

Undertaking

TO PROVIDE COPIES OF THE CONTRACT AMENDMENTS REFERRED TO IN AMPCO-55.

Response

The contract amendments referred to in Ex. L-4.3-2 AMPCO-055 part (b) are attached to this response as follows:

- Attachment 1: Amendment 6 for the Retube and Feeder Replacement Engineering, Procurement and Construction (EPC) Contract with the SNC/AECON Joint Venture.
- Attachment 2: Amendment 2 for the Turbine Generators Engineering Services and Equipment Supply Contract with Alstom.
- Attachment 4: Amendment 2 for the Turbine Generators EPC Contract with the SNC/AECON Joint Venture.
- Attachment 5: Amendment 2 for the Extended Services Master Services Agreement with the SNC/AECON Joint Venture.

In addition to the above, Amendment 1 for the Turbine Generators EPC Contract with the SNC/AECON Joint Venture is attached as Attachment 3 to this response.

Attachments 2-5 are marked "confidential." However, OPG has determined that these attachments are non-confidential, except where specifically identified. OPG is filing Attachments 2-5 in accordance with the Ontario Energy Board's Practice Direction on Confidential Filings. Furthermore, OPG notes that consistent with its pre-filed evidence, Attachments 1 - 4 to this undertaking may not include detailed technical information, including information which may constitute nuclear prescribed or security protected information (for example, detailed scopes of work, reactor laser scans, and OPG reference information or information on which the contractor may rely). OPG does not believe this information is necessary for a complete understanding of the contracts relative to OPG's Application.

As indicated in Ex. D2-2-3, p. 22, the Extended Services Master Services Agreement (ESMSA) with the SNC/AECON Joint Venture is substantially similar to the two other ESMSAs that are in place with each of ES Fox and Black & McDonald. OPG filed a copy of the most recently executed ESMSA with the SNC/AECON Joint Venture at Ex. D2-2-3, Attachment 10. Since the ESMSAs with ES Fox and Black & McDonald were not filed, OPG has not filed Amendment 3 to the ES Fox and Black & McDonald ESMSAs in response to this undertaking. However, Amendment 2 for the SNC/AECON Joint Venture's ESMSA, which is substantially similar to Amendment 3 for each of the ES Fox and Black & McDonald ESMSAs, is attached as Attachment 5 to this response.

EXECUTION VERSION

AMENDMENT AGREEMENT NUMBER 6

This Amendment Agreement Number 6 (this "**Agreement**") is made as of June 07, 2016 between

ONTARIO POWER GENERATION INC., a corporation existing under the laws of Ontario ("**OPG**"),

and

SNC-LAVALIN NUCLEAR INC. a corporation existing under the laws of Canada, and **AECON CONSTRUCTION GROUP INC.**, a corporation existing under the laws of Canada, acting jointly and severally (collectively, the "**Contractor**") doing business as a contractual joint venture known as the "SLN-AECON Joint Venture".

Recitals

A. OPG and the Contractor entered into an engineering, procurement and construction agreement dated as of March 1, 2012, as amended as of October 1, 2012, February 28, 2014, November 02, 2015, January 11, 2016, and February 1, 2016 (the "**RFR EPC Agreement**"). Under the RFR EPC Agreement, the Contractor is obliged to provide the Work in respect of the retube and feeder replacement project involving the nuclear reactors located at the Darlington nuclear generation station ("**DNGS**") in Clarington, Ontario, on the terms and conditions set out in the RFR EPC Agreement.

B. OPG and the Contractor have agreed to amend the RFR EPC Agreement to provide clarity to the end of the Definition Phase activities, as specified in this Agreement.

For value received, the Parties agree as follows.

1. Interpretation

Any defined term used in this Agreement that is not defined in this Agreement has the meaning given to that term in the RFR EPC Agreement.

2. Change to Section 8.3 (Definition Phase Disincentive – Schedule)

Section 8.3 (Definition Phase Disincentive - Schedule) of the RFR EPC Agreement is deleted in its entirety and replaced with the following:

“The Contractor will make a disincentive payment to OPG if the Contractor does not complete all Definition Phase Work (other than, for certainty, (i) the RWPB Work; and (ii) agreement on the Execution Phase Plan) associated with:

- (a) the “Definition Phase Work Complete” milestone set out in Part I of Exhibit 3.1(a);
- (b) any of the “Deferred Definition Phase Work” milestones set out in Part I of Exhibit 3.1(a); and/or
- (c) the “Containment Isolation Valves Mods Material on Site (Goods)” milestone set out in Part I of Exhibit 3.1(a),

by the respective dates specified for each of such milestones in Part I of Exhibit 3.1(a). The payment associated with the milestone identified in subsection (a) above will be an aggregate lump sum of \$1,000,000. The disincentive payment associated with each of the separate milestones identified in subsection (b) above will be in the amount of \$100,000 for each calendar day that completion of the applicable Definition Phase Work is delayed past the date specified in the Definition Phase Milestone Schedule for the applicable milestone. The disincentive payment associated with the milestone identified in subsection (c) above will be in the amount of \$100,000 for each calendar day between August 15, 2016 and August 30, 2016, inclusive, plus \$100,000 for each calendar day that completion of the applicable Definition Phase Work is delayed past August 30, 2016. Notwithstanding the foregoing, with respect to disincentive payments

associated with the milestones identified in subsections (b) and (c) above, in no event will the Contractor be liable for more than \$100,000 per calendar day.

Any ongoing dispute between OPG and the Contractor in relation to the Execution Phase Plan will have no effect on the Contractor's obligation to complete the Definition Phase Work (other than, for certainty, (i) the RWPB Work; and (ii) agreeing on the Execution Phase Plan) by the date specified in the Definition Phase Milestone Schedule or to make such disincentive payment."

3. Change to Section 8.5 (Timing for Calculation and Payment of Incentives and Disincentives)

Subsection (a) of section 8.5 (Timing for Calculation and Payment of Incentives and Disincentives) of the RFR EPC Agreement is deleted in its entirety and replaced with the following:

"The cost and schedule incentive and disincentive amounts for the Definition Phase Work and the Definition Phase Support Services & Equipment Work referred to in sections 8.1 and 8.3 will be calculated and paid as follows:

- (1) the aggregate lump sum payment associated with the milestone identified in section 8.3(a) will be payable on June 15, 2016; and
- (2) the schedule disincentive amounts identified in section 8.3(b) and section 8.3(c) will be calculated and paid immediately following the respective dates that each of such separate milestones is completed.

The cost incentive and disincentive amounts for the RWPB Work referred to in section 8.1 will be calculated and paid on the earlier of: (i) completion of the RWPB Work in accordance with this Agreement, and (ii) the date on which the aggregate amount of disincentives incurred by the Contractor exceeds the overall limit on disincentives specified in section 8.6. Such incentive and disincentive amounts will not be payable if this Agreement is terminated in accordance with Article 14 or Article 16 at any time prior to

the completion of the Definition Phase Work (other than, for certainty, agreement on the Execution Phase Plan)."

4. Change to Exhibit 3.1(a) (Definition Phase Milestone Schedule)

Part I of Exhibit 3.1(a) (Definition Phase Milestone Schedule) of the RFR EPC Agreement is deleted in its entirety and replaced with the revised document "Exhibit 3.1(a) – Definition Phase Milestone Schedule – Part I" attached to this Agreement as Attachment A.

5. Acknowledgements

There are no claims that the Contractor is aware of that may have an impact on the calculation of the Definition Phase Target Cost (for the purposes of calculating potential Definition Phase cost incentives/disincentives) other than Project Change Directives that are already in process of being reviewed by the Parties at the regular weekly Project meetings, the request for a Project Change Directive with respect to Owner Specified Materials and a potential Project Change Directive for process qualifications.

Construction work packages (CWPs) and work plans (WPs) are currently expected to be complete by June 17, 2016. The Contractor confirms it will continue to take all reasonable steps to meet this date.

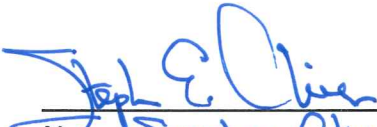
The Contractor will continue to be responsible for ensuring it obtains value for money when procuring Goods and materials; however, it is acknowledged that in order to meet the milestone dates, the Contractor's suppliers may include additional charges. OPG will act reasonably when requested by the Contractor to consider such suppliers' additional charges required to meet such milestone dates.

6. RFR EPC Agreement Remains in Full Force

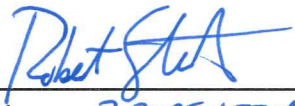
Except for changes to the RFR EPC Agreement set out in this Agreement and any previous Amendment, the RFR EPC Agreement remains in full force, unamended.

The Parties have duly executed this Agreement.

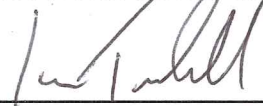
ONTARIO POWER GENERATION INC.

By: 
Name: Stephen Oliver
Title: Chief Supply Officer

SNC-LAVALIN NUCLEAR INC.

By: 
Name: ROBERT STEWART
Title: SR. VICE PRESIDENT, OPERATIONS

AECON CONSTRUCTION GROUP INC.

By: 
Name: Ian Turnbull
Title: Sr. VP Energy East

Attachment A

Exhibit 3.1(a) – Definition Phase Milestone Schedule

PART I – DEFINITION PHASE MILESTONE SCHEDULE

See attached.

AS

Exhibit 3.1(a) - Definition Phase Milestone Schedule

1. RFR Program Milestones	Finish	% Fee	Milestone Definition
Contract Effective Date	1-Mar-2012	0	Baseline Date when Contract Effective Date Occurs
Darlington Energy Centre (DEC) Complete	15-Jul-2013	0	Baseline Date when OPG Darlington Energy Centre (DEC) Complete and ready for RFR Contractor construction island
Release Quality Estimate (RQE) Complete	15-Jun-2015	0	Baseline Date when OPG Release Quality Estimate (RQE) Complete
1st Unit Breaker Open	15-Oct-2016	0	Baseline Date when 1st Unit Breaker Open
RFR 1st Unit Removal Starts/Vault Turnover to Contractor	16-May-2017	0	Baseline Date when RFR 1st Unit Removal Starts/Vault Turnover to Contractor
2. Mockup	Finish	% Fee	Milestone Definition
Mockup Preliminary Design Review Complete	31-Aug-2012	3	Finish no later than Date when Mock-up Preliminary 50% Design Review Complete and Reviewed / Accepted / Accepted as Noted by OPG
Mockup Design Issue for Construction	30-Jan-2013	3	Finish no later than Date when Mockup Design Issue for Construction Reviewed / Accepted / Accepted as Noted by OPG
Mockup Building Permits Issued	15-Jun-2013	2	Finish no later than Date when Mock-up Building Permits Issued
Mockup Installation Starts at DEC	15-Jul-2013	2	Finish no later than Date when Mock-up Installation Starts at DEC, DEC made available by OPG
Mockup Shop Fabrication Complete	15-Jan-2014	2	Finish no later than Date when Mock-up Off DEC Site Fabrication Complete
Mockup Site Construction and Assembly Complete	15-Feb-2014	2	Finish no later than Date when Mock-up on DEC Site Construction and Assembly Complete
Mockup Substantial Completion	15-Mar-2014	5	Finish no later than Date when Mock-up Substantial Completion Declared
Mockup Building Permits Inspections Passed	15-Mar-2014	2	Finish no later than Date when Mock-up Building Permits Inspections Passed
Mockup Punchlist Completed	15-Mar-2014	2	Finish no later than Date when Mock-up Punchlist Completed and DEC Construction Island Returned to OPG
Mockup Final Design As Built Drawings Accepted by OPG	15-Apr-2014	2	Finish no later than Date when Mock-up Final 100% Design As Built Drawings Reviewed / Accepted / Accepted as Noted by OPG
Mockup Finalize DEC Modifications by OPG / Mockup Available for Use	15-May-2014	0	Finish no later than Date when Mock-up Final DEC Modifications by OPG / Mock-up Available for Use by RFR Contractor
3. Tooling	Finish	% Fee	Milestone Definition
Tooling Preliminary Design Review Complete	31-Aug-2013	2	Finish no later than Date when Tooling Preliminary COMS and Design Review Complete and Reviewed / Accepted / Accepted as Noted by OPG
Tooling Preliminary Engineering (Eng) Complete	15-Feb-2014	2	Finish no later than Date when Tooling Preliminary Engineering (Eng) Complete
Tooling Draft Procedures Issued	30-May-2014	1	Finish no later than Date when Tooling Draft Procedures have been Reviewed & Issued
Tooling Detailed Eng Complete	30-Jun-2014	1	Finish no later than Date when Tooling Detailed Eng Reviewed / Accepted / Accepted as Noted by OPG
Tooling Prototypes' Complete	30-Sep-2014	1.5	Finish no later than Date when Tooling Prototypes Fabricated and Demonstrated
Tooling Qualification Complete	31-Dec-2014	1	Finish no later than Date when Tooling Qualification Report Reviewed / Accepted / Accepted as Noted by OPG (Factory Acceptance)
Tooling Final Design Accepted by OPG	15-Jun-2015	1	Finish no later than Date when Tooling Final Design Reviewed / Accepted / Accepted as Noted by OPG
Tooling Commissioning and Mockup Integration Testing Complete	15-Jun-2015	2.5	Finish no later than Date when Tooling Commissioning and Mock-up Integration Testing Complete and Reviewed / Accepted / Accepted as Noted by OPG
Tooling Procedures Issued & Available for Service (AFS)	15-Aug-2015	1	Finish no later than Date when Tooling Procedures Issued & Available for Service (AFS) Report Reviewed / Accepted / Accepted as Noted by OPG
Waste Management & Volume Reduction Tooling Draft Procedures Issued	30-Nov-2014	0	Finish no later that Date when Waste Management & Volume Reduction Tooling Draft Procedures have been reviewed and issued
Waste Management & Volume Reduction Tooling Draft Detailed Engineering Complete	30-Jan-2015	0	Finish no later that Date when Waste Management & Volume Reduction Tooling Detailed Engineering Reviewed / Accepted / Accepted as Noted by OPG
Waste Management & Volume Reduction Tooling Prototypes Complete	30-Nov-2015	0	Finish no later that Date when Waste Management & Volume Reduction Tooling Prototypes Fabricated and Demonstrated
Waste Management & Volume Reduction Tooling Qualification Complete	30-Jan-2016	0	Finish no later that Date when Waste Management & Volume Reduction Tooling Qualification Report Reviewed / Accepted / Accepted as Noted by OPG (Factory Acceptance)
Waste Management & Volume Reduction Tooling Final Design Accepted by OPG	28-Feb-2016	0	Finish no later that Date when Waste Management & Volume Reduction Tooling Final Design Reviewed / Accepted / Accepted as Noted by OPG
Waste Management & Volume Reduction Tooling Commissioning Complete	15-Jun-2016	0	Finish no later that Date when Waste Management & Volume Reduction Tooling Commissioning Report Reviewed / Accepted / Accepted as Noted by OPG

Waste Management & Volume Reduction Tooling Procedures Issued & Available for Service (AFS)	15-Jun-2016	0	Finish no later than Date when Waste Management & Volume Reduction Tooling Procedures Issued & Available for Service (AFS) Report Reviewed / Accepted / Accepted as Noted by OPG. NOTE: Commissioning may take place at facilities other than Retube Waste Processing Building.
4. Modifications (Mods) & Eng	Finish	% Fee	Milestone Definition
D1231 Unit 3 Outage - Walkdowns	15-Mar-2012	2	Finish no later than Date when D1231 Unit 3 Outage - Walkdown Plan Submitted
Definition Phase PMP Submitted	15-Jun-2012	1	Finish no later than Date when Definition Phase PMP Submitted
D1341 Unit 4 Outage - Walkdowns	15-Apr-2013	2	Finish no later than Date when D1341 Unit 4 Outage - Walkdown Report Submitted
Mods Scoped	15-Jun-2013	5	Finish no later than Date when All Mod Outline Packages Complete and Reviewed / Accepted / Accepted as Noted by OPG
D1321 Unit 2 Outage - Walkdowns	15-Nov-2013	2	Finish no later than Date when D1321 Unit 2 Outage - Walkdown Report Submitted
D1411 Unit 1 Outage - Walkdowns	15-May-2014	2	Finish no later than Date when D1411 Unit 1 Outage - Walkdown Report Submitted
Mods Preliminary Design Review & COMS Complete	15-Jul-2014	2	Finish no later than Date when Mods Preliminary Design Review & COMS Complete
Mods Final Design Review & COMS Complete	15-Mar-2015	3	Finish no later than Date when Mods Final Design Review & COMS Complete
Engineering Complete	15-Jun-2015	3	Finish no later than Date when all design packages Reviewed / Accepted / Accepted as Noted by OPG.
Mods Design Work Package Ready	15-Jun-2015	2	Finish no later than Date when Mods Design Work Packages Ready for use
Mods Materials On Site (Goods)	15-Apr-2016	1	Finish no later than Date when 1st Unit Mods Materials Available for Use Within One Week
5. RFR Owner-Specified Materials	Finish	% Fee	Milestone Definition
Materials Specifications Issued - Long Lead Materials	1-Sep-2012	3	Finish no later than Date when Materials Specifications Issued - Long Lead Materials from OPG
Materials Procurement Package Issued - Long Lead Materials	15-Aug-2013	3	Finish no later than Date when Materials Procurement Packages Issued - Long Lead Materials (> 24 months)
Materials 1st Unit Long-Lead Material Ordered	31-Oct-2013	3	Finish no later than Date when Materials 1st Unit Long-Lead Material Ordered (last PO issued)
Materials Specifications Issued - Non-Long-Lead Materials	15-Jan-2014	1	Finish no later than Date when Materials Specifications Issued - Non-Long-Lead Materials (< 24 months) from OPG
Materials Procurement Packages Issued - Non-Long-Lead Materials	15-Jun-2014	1	Finish no later than Date when Materials Procurement Packages Issued - Non-Long-Lead Materials (< 24 months)
Materials Owner-Specified Materials Ordered- Non-Long-Lead Materials	15-Sep-2015	2	Finish no later than Date when Materials Owner-Specified Materials Ordered- Non-Long-Lead Materials (last PO issued)
OSM Materials 1st Unit On Site	15-Sep-2017	0	Finish no later than Date when OSM Materials 1st Unit On Site (this does not influence Definition Phase Work Complete Milestone)
6. RQE	Finish	% Fee	Milestone Definition
Class 5 Estimate, Level 2 Schedule, Risk Reviews	1-Sep-2012	3	Finish no later than Date when Class 5 Estimate, Level 2 Schedule, Risk Reviews Reviewed / Accepted / Accepted as Noted by OPG
Class 4 Estimate, Level 3 Schedule, Risk Reviews	15-Jun-2013	3	Finish no later than Date when Class 4 Estimate, Level 3 Schedule, Risk Reviews Reviewed / Accepted / Accepted as Noted by OPG
Class 3 Estimate, Level 4 Schedule, Risk Reviews	15-Jun-2014	3	Finish no later than Date when Class 3 Estimate, Level 4 Schedule, Risk Reviews Reviewed / Accepted / Accepted as Noted by OPG
Class 2 Estimate, Level 5 Schedule, Risk Reviews	15-Jun-2015	3	Finish no later than Date when Class 2 Estimate, Level 5 Schedule, Risk Reviews Reviewed / Accepted / Accepted as Noted by OPG
7. Execution	Finish	% Fee	Milestone Definition
Definition Phase Work Complete	15-Jun-2016	3	Finish no later than Date when all Definition Phase Work Complete, other than 1) "Deferred Definition Phase Work" as described in section 21 of this Exhibit, 2) "Containment Isolations Valves Mods Material on Site (Goods)" as described in section 22 of this Exhibit, and 3) other Definition Phase Work with finish dates after 15-Jun 2016 as set out in this Exhibit.
8. Unit Containment Isolations	Finish	% Fee	Milestone Definition
Unit Containment Isolations Conceptual Design Report Completed (Including recommended option)	28-Feb-2013	0	Finish no later than Date when Reviewed/Reviewed as Noted by OPG
Bulkhead, Associated Isolations and Test Equipment Final Design Completed	15-Feb-2014	0	Finish no later than Date when Reviewed/Reviewed as Noted by OPG
Class 3 Estimate for Unit Containment Isolations Procurement & Fabrication	28-Feb-2014	0	Finish no later than Date when Reviewed/Reviewed as Noted by OPG
Calandrial Seal Final Design Completed	15-Sep-2014	0	Finish no later than Date when Reviewed/Reviewed as Noted by OPG

Bulkhead, Calandria Seal and Associated Isolations Duct Work Ready to Perform During Station Condition Outage (SCO).	4-Apr-2015	0	Finish no later than Date for Contractor to be ready to perform the duct Work during the 2015 SCO. The Contractor must perform all required planning and other activities for the SCO in accordance N-PROC-MA-0013 and the milestones set out therein.
Calandria Seal, Associated Isolations and First Bulkhead Tested & Available	15-Jun-2015	0	Finish no later than Date when first bulkhead set is tested and available for service
9. Retube Waste Processing Building (RWPB)	Finish	% Fee	Milestone Definition
RWPB Engineering (Design) Complete	15-Mar-2015	0	Finish no later than Date when all RWPB detailed design packages (Foundations, Building Shell, Interior Shielding, Bridge Cranes, HVAC, and Balance of Scope) Reviewed/Reviewed Noted by OPG
RWPB Final Procedures Issued	15-Feb-2016	0	Finish no later than Date when all RWPB operating procedures are Reviewed/Reviewed as Noted by OPG
RWPB Materials Ordered	15-Nov-2015	0	Finish no later than Date when last RWPB PO is issued by the Contractor with any PO hold points released.
RWPB Manufacturing Complete	15-Dec-2015	0	Finish no later than Date when Shop Fabrication of Foundations, Building Shell, Interior Shielding, Bridge Cranes, HVAC, and Balance of Scope is complete.
RWPB Installation/Commissioning Complete	15-Jun-2016	0	Finish no later than Date when RWPB construction of Foundations, Building Shell, Interior Shielding, Bridge Cranes, HVAC, and Balance of Scope is complete and commissioned.
10. PHT and Moderator Drying Tooling	Finish	% Fee	Milestone Definition
PHT and Moderator Drying Tooling Draft Procedures Issued	30-Nov-2014	1	Finish no later than Date when PHT and Moderator Drying Tooling Draft Procedures have been Reviewed & Issued
PHT and Moderator Drying Tooling Detailed Eng Complete	30-Nov-2014	1	Finish no later than Date when PHT and Moderator Drying Tooling Detailed Eng Reviewed / Accepted / Accepted as Noted by OPG
PHT and Moderator Drying Tooling Prototypes Complete	30-Mar-2015	1.5	Finish no later than Date when PHT and Moderator Drying Tooling Prototypes Fabricated and Demonstrated
PHT and Moderator Drying Tooling Qualification Complete	30-Jun-2015	1	Finish no later than Date when PHT and Moderator Drying Tooling Qualification Report Reviewed / Accepted / Accepted as Noted by OPG (Factory Acceptance)
PHT and Moderator Drying Tooling Final Design Accepted by OPG	31-Jul-2015	1	Finish no later than Date when PHT and Moderator Drying Tooling Final Design Reviewed / Accepted / Accepted as Noted by OPG
PHT and Moderator Drying Tooling Commissioning and Mockup Integration Testing Complete	30-Jun-2015	2.5	Finish no later than Date when PHT and Moderator Drying Tooling Commissioning and Mock-up Integration Testing Complete and Reviewed / Accepted / Accepted as Noted by OPG
PHT and Moderator Drying Tooling Procedures Issued & Available for Service (AFS)	15-Aug-2015	1	Finish no later than Date when PHT and Moderator Drying Tooling Procedures Issued & Available for Service (AFS) Report Reviewed / Accepted / Accepted as Noted by OPG
11. Bulk PHTS Vacuum Drying Modifications (Mods) & Eng	Finish	% Fee	Milestone Definition
Bulk PHTS Vacuum Drying MODS and Final Design Review & COMS Complete	15-Jun-2015	0	Finish no later than Date when Mods Final Design Review & COMS Complete.
Bulk PHTS Vacuum Drying Engineering Complete	15-Sep-2015	0	Finish no later than Date when all design packages Reviewed / Accepted / Accepted as Noted by OPG.
Bulk PHTS Vacuum Drying MODS Design Work Package Ready	15-Oct-2015	0	Finish no later than Date when Mods Design Work Packages ready for use.
12. Bulk PHTS Vacuum Drying Tool	Finish	% Fee	Milestone Definition
Bulk PHTS Vacuum Drying Tooling Final Design Accepted by OPG.	15-Oct-2015	0	Finish no later than Date when Tooling Final Design Reviewed / Accepted / Accepted as Noted by OPG
Bulk PHTS Vacuum Drying Tooling Commissioning and Mockup Integration Testing Complete.	15-Oct-2015	0	Finish no later than Date when Tooling Commissioning and Mock-up Integration Testing Complete and Reviewed / Accepted / Accepted as Noted by OPG
Bulk PHTS Vacuum Drying Tooling Procedures Issued & Available for Service (AFS)	15-Dec-2015	0	Finish no later than Date when Tooling Procedures Issued & Available for Service (AFS) Report Reviewed / Accepted / Accepted as Noted by OPG
13. In-Station Transfer Flask Route	Finish	% Fee	Milestone Definition
In-station Flask Transfer Route Final Design Review & COMS Complete (Rev 0)	31-Mar-16	0	Finish no later than Date when In-station Flask Transfer Route Final Design Review & COMS Complete
In-station Flask Transfer Route Engineering Complete DA/DOM Approval	31-May-16	0	Finish no later than Date when all design packages Reviewed / Accepted / Accepted as Noted by OPG.
In-Station Flask Transfer Route Goods On Site	30-Sep-16	0	Finish no later than when Goods on site and available for use.
14. Enhanced Material Handling Capabilities	Finish	% Fee	Milestone Definition
Enhanced Material Handling Capabilities - Tooling Procedures Issued & Available for Service (AFS)	15-Feb-16	0	Finish no later than Date when Enhanced Material Handling Capabilities -Tooling Procedures Issued & Available for Service (AFS) Report Reviewed / Accepted / accepted as Noted by OPG
15. Annulus Spacers Retrieval Tooling (ASRT)	Finish	% Fee	Milestone Definition

ASRT Tooling Detailed Engineering Complete	15-Jun-16	0	Finish no later than Date when Tooling Detailed Engineering Reviewed / Accepted / Accepted as Noted by OPG
ASRT Manufacture Complete / Delivered	15-Nov-16	0	Triggered when Tool is received at the Darlington Energy Centre (DEC)
ASRT Procedures Issued & Available for Service (AFS)	15-Mar-17	0	Finish no later than Date when Tooling Procedures Issued & Available for Service (AFS) Report Reviewed / Accepted / Accepted as Noted by OPG
16. Rehearsals at Darlington Energy Centre	Finish	% Fee	Milestone Definition
Detailed Rehearsal Plan and Schedule	1-Oct-2015	0	Finish no later than Date when Detailed Rehearsal Plan and Schedule for rehearsals activity to be performed at DEC Reviewed / Accepted / Accepted as Noted by OPG
Fuel Channel Inspection Series Rehearsals	31-May-2016	0	Finish no later than Date when Fuel Channel Inspection Series Rehearsals Complete
Feeder Removal Series Rehearsals Complete	31-May-2015	0	Finish no later than Date when Feeder Removal Series Rehearsals Complete
Feeder Installation Series Rehearsals Complete	31-May-2016	0	Finish no later than Date when Feeder Removal Series Rehearsals Complete
Fuel Channel Installation Series Rehearsals	31-May-2016	0	Finish no later than Date when Fuel Channel Installation Series Rehearsals Complete
Fuel Channel Removal Series Rehearsals	31-May-2016	0	Finish no later than Date when Fuel Channel Removal Series Rehearsals Complete
Lessons Learned Report and Documentation Revisions	15-Jun-2016	0	Finish no later than Date when Lessons Learned Report and Documentation Revisions completed (including CWP, training material, work instructions and operating manuals, Project Supply List, and Tooling Improvement List)
Execution Phase Schedule and Cost Estimate Revised	15-Jun-2016	0	Finish no later than Date when Execution Phase Schedule and Cost Estimate Reviewed / Accepted / Accepted as Noted by OPG
17. Tooling Management System	Finish	% Fee	Milestone Definition
TMS Hardware and Software Management Plan	31-Jan-2016	0	Finish no later than Date when TMS Hardware and Software Management Plan Reviewed / Accepted / Accepted as Noted by OPG
Scope of Work for Off-Site Tooling Shipping and Packaging	31-Jan-2016	0	Finish no later than Date when Scope of Work for Off-Site Tooling Shipping and Packaging Complete and Incorporated into TMS and Reviewed / Accepted / Accepted as Noted by OPG
Scope of Work for Off-Site Tooling Storage Facilities	31-Mar-2016	0	Finish no later than Date when Scope of Work for Off-Site Tooling Storage Facilities Complete and Incorporated into TMS and Reviewed / Accepted / Accepted as Noted by OPG
TMS System Hardware and Software Configured and Available for Data Input	30-Apr-2016	0	Finish no later than Date when TMS System Hardware and Software Configured and Available for Data Input Complete
Procedures for Scheduled and Preventative Tooling Maintenance	15-Jun-2016	0	Finish no later than Date when Procedures for Scheduled and Preventative Tooling Maintenance Complete and Reviewed / Accepted / Accepted as Noted by OPG
Tooling Readiness Program	15-Jun-2016	0	Finish no later than Date when Tooling Readiness Program Complete and Reviewed / Accepted / Accepted as Noted by OPG
Tooling-specific Material Management Plan	15-Jun-2016	0	Finish no later than Date when Tooling-specific Material Management Plan completed and data input into TMS and Reviewed / Accepted / Accepted as Noted by OPG
Revised CWP, Training Material, Work Instructions, and Operating Manuals	15-Jun-2016	0	Finish no later than Date when Revised CWP, Training Material, Work Instructions, and Operating Manuals Reviewed / Accepted / Accepted as Noted by OPG
Execution Phase Schedule and Cost Estimate Revised	15-Jun-2016	0	Finish no later than Date when Execution Phase Schedule and Cost Estimate Reviewed / Accepted / Accepted as Noted by OPG
18. Upgrade to Lattice Tube Inspection Tool	Finish	% Fee	Milestone Definition
Automated CTSB Inspection - Mobilization	30-Nov-2015	0	Finish no later than Date when Automated CTSB Inspection Mobilization Complete.
Automated CTSB Inspection - Detailed Engineering Complete	30-Mar-2016	0	Finish no later than Date when Detailed Engineering package Reviewed / Accepted / Accepted as Noted by OPG
Automated CTSB Inspection - Prototype Complete	30-May-2016	0	Finish no later than Date when Prototype proof testing complete and Test Report accepted by Contractor
Automated CTSB Inspection - Feasibility Report Complete	30-Jun-2016	0	Finish no later than Date when Automated CTSB Inspection Feasibility Report Reviewed / Accepted / Accepted as Noted by OPG
19. East AGV Upgrade to Dual Flasks	Finish	% Fee	Milestone Definition
EAGV Upgrade to Dual Flasks - Mobilization	30-Nov-2015	0	Finish no later than Date when EAGV Upgrade to Dual Flasks Mobilization Complete.
EAGV Upgrade to Dual Flasks - Manufacturing Complete / Delivered	30-Sep-2016	0	Finish no later than Date when EAGV Upgrade to Dual Flasks manufacturing complete and Tool delivered to the Darlington Energy Centre.
EAGV Upgrade to Dual Flasks - Final Procedures Issued	20-Nov-2016	0	Finish no later than Date when EAGV Upgrade to Dual Flasks Final Procedures and Design Documentation Reviewed / Accepted / Accepted as Noted by OPG
20. Modifications to Sub-Assembly Insertion Fixtures	Finish	% Fee	Milestone Definition
Modifications to Sub-Assembly Insertion Fixtures - Mobilization	30-Nov-2015	0	Finish no later than Date when Modifications to Sub-Assembly Insertion Fixtures Mobilization Complete.
Modifications to Sub-Assembly Insertion Fixtures - Manufacturing Complete / Delivered	30-Sep-2016	0	Finish no later than Date when Modifications to Sub-Assembly Insertion Fixtures Manufacturing Complete and Tool Delivered to the Darlington Energy Centre.

Modifications to Sub-Assembly Insertion Fixtures - Final Procedures Issued	30-Dec-2016	0	Finish no later than Date when Modifications to Sub-Assembly Insertion Fixtures Final Procedures and Design Documentation Reviewed / Accepted / Accepted as Noted by OPG
21. Deferred Definition Phase Work	Finish	% Fee	Milestone Definition
Miscellaneous Definition Phase Work Complete	15-Aug-2016	0	Finish no later than Date when Miscellaneous Definition Phase Work Complete. Miscellaneous Definition Phase Work is listed in Attachment 1 to this Exhibit.
Deferred Mods Materials On Site (Goods)	15-Aug-2016	0	Finish no later than Date when Deferred Mods Materials (Goods) Available for use within one week. Deferred Mods Materials (Goods) are listed in Attachment 1 to this Exhibit.
Vault Cranes Mods Materials on Site (Goods)	8-Sep-2016	0	Finish no later than Date when Vault Cranes Mod. Materials 1st Unit (Goods) Available for use within one week. Vault Cranes Mods Materials are listed in Attachment 1 to this Exhibit.
Bulk PHTS Vacuum Drying Mods Materials On Site (Goods)	15-Oct-2016	0	Finish no later than Date when 1st Unit Bulk PHTS Vacuum Drying MODS Materials (Goods) Available for use within one week. Bulk PHTS Vacuum Drying Mods Materials are listed in Attachment 1 to this Exhibit.
Access Platform Trolley on Site (Goods)	14-Dec-2016	0	Finish no later than Date when Access Platform Trolley (Goods) Available for use within one week. Access Platform Trolley is listed in Attachment 1 to this Exhibit.
22. Containment Isolations Valves Mods Material on Site (Goods)	Finish	% Fee	Milestone Definition
Containment Isolations Valves Mods Material on Site (Goods)	30-Aug-2016	0	Finish no later than Date when Containment Isolations Valves Mods Material (Goods) Available for use within one week. Containment Isolations Valves are listed in Attachment 1 to this Exhibit.

Clarification Notes:

1. Consumables and items with a limited shelf life will not be considered when determining if the Goods milestones have been met
2. The Clean Room and Calibration Shop will not be considered Definition Phase Work it will be considered Execution Phase Work
3. Tooling for G08W will be considered contingency Tooling and although it is part of the Definition Phase Work, it will not attract Definition Phase schedule disincentives
4. The Goods for the Bulk Head Shielding are Definition Phase Work. Laser cutting and fabrication of the Bulk Head Shielding Goods will be considered Execution Phase Work.
5. Rentals will be considered procured when a purchase order has been issued.
6. Contingency items tracked on the Contractors' weekly Goods Dashboard dated May 17, 2016 will be considered Execution Phase Work.
7. Project Change Directives numbered 19, 21 and greater will not attract Definition Phase schedule disincentives, although they will be subject to the Definition Phase cost incentive/disincentive regime
For clarity PCD 20 work is subject to the RWPB incentive/disincentive regime

Attachment 1 to Exhibit 3.1(a) - Definition Phase Milestone Schedule

Deferred Definition Phase milestones consist of the following items:

Miscellaneous Definition Phase Work Complete

- 1 Feeder Package DCAVR Ecs Rev 01 prepared and issued. OPG review and approval is Execution Phase Work.
- 2 Work Plans Rev 00 prepared and issued. OPG review and approval is Execution Phase Work.
- 3 Construction Work Packages & Inspection Test Plans prepared and issued. OPG review and approval is Execution Phase Work.
- 4 EC Revisions (Airlock Doors) Rev01 prepared and issued. OPG review and approval is Execution Phase Work.
- 5 Project Integration Plan prepared and issued for review. OPG review and approval is Execution Phase Work.
- 6 Warehouse Racking Goods Available for use within one week
- 7 Tornado Wall Goods Available for use within one week
- 8 The following Owner Specified Materials ordered (last PO issued): Channel Closure Plugs, Feeder Scanner Guide Tubes & Supports, Feeder Cabinet Flexible Panels & Insulation Panels, Feeder Cabinet Frames & Supports, Instrumentation Tubing & Tubing Supports, and Low Level Waste Containers.

Deferred Mods Materials On Site (Goods)

- 1 509407-0002-21190-41EQ-0001 - Concrete and Reinforcing Steel
- 2 509407-0002-21250-41EQ-0001 - Structural Steel - SR
- 3 509407-0002-21250-41EQ-0002 - Structural Steel - NSR
- 4 509407-0002-28200-41EQ-0005 - RCC Trailer and Weather Shield Installation Support
- 5 509407-0002-32100-45EQ-0011 - Drum Station
- 6 509407-0002-33000-45EQ-0001 - Non-Nuclear Hoses, Hoseconnectors and whipchecks
- 7 509407-0002-34000-45EQ-0002 - Aux. Sys. Piping Protection
- 8 509407-0002-53000-47EQ-0001 - Non Safety Related Cables
- 9 509407-0002-53000-47EQ-0002 - Safety Related Cables
- 10 509407-0002-53240-47EQ-0001 - 5 KV CIRCUIT BREAKERS, RELAYS, CT's
- 11 509407-0002-53340-47EQ-0002 - Electrical Equipment
- 12 509407-0002-53340-47EQ-0003 - Electrical Components
- 13 509407-0002-57411-47EQ-0003 - CABLE TRAY SUPPORT FABRICATION
- 14 509407-0002-60200-48EQ-0001 - Commercial VOS/VCS System
- 15 509407-0002-60200-48EQ-0003 - RCC Internals-Network Equipment, Computers, & Large LED Screen Display
- 16 509407-0002-60260-48EQ-0001 - Camera for Smoke Detection
- 17 509407-0002-62115-48EQ-0001 - Strain Monitoring System
- 18 509407-0002-63000-48EQ-0001 - I&C EQ. Components
- 19 509407-0002-63427-48EQ-0001 - Moisture Transmitter
- 20 509407-0002-70000-45EQ-0001 - CENTRIFUGAL PUMPS
- 21 509407-0002-70000-45EQ-0002 - CONDENSATE TANK
- 22 509407-0002-73720-45EQ-0001 - WATER COOLED UNIT-DX
- 23 509407-0002-73720-45EQ-0002 - HVAC Ducting
- 24 509407-0002-75000-45EQ-0001 - Breathing Air Station

- 25 509407-0002-75100-45EQ-0001 - Non-Nuclear Bronze Diaphragm Valve
- 26 509407-0002-75100-45EQ-0002 - Non-Nuclear Pipe, Fittings - Brass, Copper
- 27 509407-0002-75500-45EQ-0001 - Service Air Compressor Package
- 28 509407-0002-75500-45EQ-0002 - Non-Nuclear Swagelok Fittings and Swagelok Valves
- 29 509407-0002-75500-45EQ-0003 - Non-Nuclear SAFETY RELIEF VALVES
- 30 509407-0002-75500-45EQ-0004 - Non-Nuclear Valve (BALL-CS)
- 31 509407-0002-75500-45EQ-0005 - Non-Nuclear Argon Flowmeter
- 32 509407-0002-75500-45EQ-0006 - Non-Nuclear Pressure Regulator
- 33 509407-0002-75500-45EQ-0007 - Non-Nuclear Pressure Gauge
- 34 509407-0002-75500-45EQ-0008 - (RENTAL) - Non-Nuclear Argon Gas Productivity Pack
- 35 509407-52BT-I-0071 UNISTRUT ACCESSORIES
- 36 509407-52BT-I-0072 CABLE TRAYS AND ACCESSORIES
- 37 509407-52BT-I-0073 GROUNDING ACCESSORIES
- 38 509407-52BT-I-0074 RCC INTERNAL- FURNITURE
- 39 509407-52BT-I-0092 MISCELLANEOUS COMPONENTS MATERIALS
- 40 509407-52BT-I-103 NON-PRESSURE BOUNDARY FITTINGS
- 41 509407-52BT-I-104 WEIGHT SCALE AND RAMP
- 42 509407-52BT-I-105 200L STAINLESS STEEL DRUMS
- 43 509407-52BT-I-106 DRAINAGE PRODUCT STRAINER WITH FUNNEL
- 44 509407-52BT-I-107 INDUSTRIAL GRATING
- 45 509407-52BT-I-108 FIRE STOP MATERIAL
- 46 509407-52BT-I-109 PAINT, PIPE SEALANT, FOAM
- 47 52BT-I-0079 - RVAS Ducting
- 48 509407-0002-21126-45EQ-0004 - Bulkhead & Support Structures
- 49 509407-0002-21126-45EQ-0005 - Bulkhead Shielding Support Frame
- 50 509407-0002-21126-45EQ-0006 - Existing Bulkhead Repair
- 51 509407-0002-21133-45EQ-0002 - Containment Test - Valves (Check, Globe, Needle)
- 52 509407-0002-21133-45EQ-0003 - Containment Test NUCLEAR CLASS - Piping & Fittings
- 53 509407-0002-21133-45EQ-0005 - Containment Test - Instruments (Roots Meter, Pressure Gauge, Temperature Gauge)
- 54 509407-0002-21133-45EQ-0007 - Containment Test - Equip. (Vacuum Pumps)
- 55 509407-0002-21133-45EQ-0015 - Containment Test - Equip. (Diesel Air Comp, Air Dryer, Air Receiver, Air Silencer)
- 56 509407-0002-21133-45EQ-0019 - Containment Test (Heat Exchanger)
- 57 509407-0002-34200-45EQ-0003 - Associated Isolations - Nuclear Class (Plate & Sheet Metal)

Containment Isolation Valves Mods Material on Site (Goods)

- 1 509407-0002-21133-45EQ-0001 - Containment Isolation Valves 2-21133-V26 & V27
- 2 509407-0002-34200-45EQ-0001 - Associated Isolations - Nuclear Valves

Vault Cranes Mods Materials on Site (Goods)

- 1 509407-0004-76111-47EQ-0001 - Containment Vault Cranes Upgrade (Note: Contingency Motors (1200 RPM) are considered Execution Phase Work)



Bulk PHTS Vacuum Drying Mods Materials On Site (Goods)

- | | |
|----|---|
| 1 | 509407-0002-21133-45EQ-0003 - Containment Test NUCLEAR CLASS - Piping & Fittings |
| 2 | 509407-0002-21133-45EQ-0004 - Containment Test - Miscellaneous Class 6 Pipe Support Components
(Straps, Angles, Plate) |
| 3 | 509407-0002-21133-45EQ-0016 - Containment Test - Hardware (Gaskets, Stud, Washer, and Coupling) Non-
Nuclear |
| 4 | 509407-0002-21133-45EQ-0017 - Containment Test - Pipe & Hose (Flanges, Reducer, Elbow, Tee, Tube)
Non-Nuclear |
| 5 | 509407-0002-32100-45EQ-0001 - Nuclear Rupture Discs |
| 6 | 509407-0002-32100-45EQ-0002 - HOSES |
| 7 | 509407-0002-32100-45EQ-0003 - NON-NUCLEAR VALVES |
| 8 | 509407-0002-32100-45EQ-0006 - CHILLER FOR MODERATOR DRYING SYSTEM |
| 9 | 509407-0002-32100-45EQ-0007 - AIR PURGE SYSTEM FOR LOWER MODERATOR SYSTEM |
| 11 | 509407-0002-32100-45EQ-0009 - NON-NUCLEAR INSTRUMENTS |
| 12 | 509407-0002-32100-45-EQ-0012 - PIPING & FITTINGS |
| 14 | 509407-0002-33000-45EQ-0004 - PORTABLE EXHAUST UNIT ASSEMBLY |
| 15 | 509407-0002-33000-45EQ-0005 - FEEDER CABINET HEATING AIR DUCTS |
| 16 | 509407-0002-38310-45EQ-0002 - Moderator Drying System - Non-Nuclear Butterfly Valves |
| 17 | 509407-0002-00000-45EQ-0001 - Portable Tritium Reclaim Dehumidifiers |

Access Platform Trolley on Site (Goods)

- | | |
|---|--|
| 1 | 509407-0002-35630-45EQ-0001 - Fuelling Duct Accessibility Platform Trolley |
|---|--|

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AMENDMENT AGREEMENT NUMBER 2

This Amendment Agreement Number 2 (this "**Agreement**") is made as of July 27, 2016, between:

ONTARIO POWER GENERATION INC., a corporation existing under the laws of Ontario ("**OPG**"),

-and-

ALSTOM POWER CANADA INC. a corporation existing under the laws of Canada (the "**Contractor**").

Recitals

- A. OPG and the Contractor entered into an engineering services and equipment supply agreement dated as of March 27, 2013, as amended by Amendment Number 1 made as of December 10, 2014 (the "**Original Agreement**"). Under the Original Agreement, the Contractor is obliged to perform the Work and provide the Goods in support of the Darlington Refurbishment Program at the Darlington nuclear generation station ("**DNGS**") in Clarington, Ontario, on the terms and conditions set out in the Original Agreement.
- B. OPG and the Contractor have agreed to amend the Original Agreement to:
1. incorporate Change Directives numbers 4, 10, 11, 12, 14, 15, 16, 18, 19 and 20 into the Original Agreement through changes to the following Schedules:
 - i. Schedule 1.1(dddd) (Specifications);
 - ii. Schedule 2.6(a)(1) (Contract Schedule);
 - iii. Schedule 5.6 (Economic Cost Adjustment);
 - iv. Schedule 7.1 (Contract Price); and
 - v. Schedule 9.6(a) (Illustration of Warranty Period).
 2. incorporate other changes to the Original Agreement, including those related to the change of control transaction as a result of which General

Amendment No. 2 to the Engineering Services and Equipment Supply Agreement
for the Darlington Turbine Generators Refurbishment Project made as of March 27, 2013

DNGS-Refurb-225240

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Electric Company acquired a direct or indirect controlling interest in the Contractor, as specified in this Agreement.

For value received, the Parties agree as follows.

1. Interpretation

Any defined term used in this Agreement that is not defined in this Agreement has the meaning given to that term in the Original Agreement.

2. Change to Section 1.1(c) (Alstom Group)

Section 1.1(c) (Alstom Group) of the Original Agreement is changed by replacing "Alstom S.A." with "General Electric Company".

3. Change to Section 1.1(pp) (Guarantor)

Section 1.1(pp) (Guarantor) of the Original Agreement is changed by replacing "Alstom Holdings S.A." with "General Electric Company".

4. Change to Section 2.1(j) (Financial Information)

Section 2.1(j) (Financial Information) of the Original Agreement is deleted in its entirety and replaced with the following:

"The Contractor authorizes OPG to make credit enquiries about the Contractor or any of its Affiliates from time to time and to receive and exchange credit information from credit reporting agencies or other Persons with which the Contractor or any of its Affiliates has or may expect to have financial dealings. The Contractor has made available to OPG the consolidated audited financial statements of the Guarantor for the last three financial years. Such financial statements are available in such Guarantor's website at www.ge.com. Such financial statements have been prepared in accordance with the US generally accepted accounting principles (GAAP), consistently applied. Such financial statements fairly reflect the consolidated financial position and results of operations of the Guarantor as at the dates and for the periods set out in such statements. The Guarantor will provide OPG with its annual audited consolidated financial statements within 90 days of each fiscal year end as fairly reflecting the

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consolidated financial position and results of operations of the Guarantor as at the dates and for the periods set out in such statements. The Contractor will also provide OPG with any other financial information respecting the Contractor, the Guarantor or any of its Affiliates that OPG may reasonably request to assist OPG in its ongoing evaluation of the value of the indemnifications and other rights provided to OPG by the Contractor under this Agreement."

5. Change to Section 4.1(b) (Parental Indemnity)

Section 4.1(b) (Parental Indemnity) of the Original Agreement is changed by:

- (a) deleting subsections (2), (3) and (6) in their entirety;
- (b) replacing "Alstom S.A." with "the Guarantor" wherever "Alstom S.A." is mentioned in subsections (4) and (5); and
- (c) renumbering subsections (4) and (5) as subsections (2) and (3).

6. Change to Section 10.1(i) (Events of Default)

Section 10.1(i) (Events of Default) of the Original Agreement is changed by replacing "Alstom S.A." with "the Guarantor".

7. Change to Schedule 4.1(b)(2) (Form of Guarantor Letter)

Schedule 4.1(b)(2) (Form of Guarantor Letter) to the Original Agreement is deleted in its entirety. All references to this schedule throughout the Original Agreement are deleted accordingly.

8. Change to Section 4.1(a) (Letters of Credit)

Subsection (3) of section 4.1(a) (Letters of Credit) of the Original Agreement is deleted in its entirety and replaced with the following:

"In the event that the Contract Price is adjusted pursuant to an Amendment in accordance with Article 5, the Contractor will, within 15 Business Days of the date of the applicable Amendment, increase or decrease the amount of the Interim LC, the Project LC and/or the Warranty LC, as the case may be, as required to maintain

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the percentages set out in section 4.1(a)(2), provided that the Contractor will not be required to increase or decrease the amount of the Interim LC, the Project LC and/or the Warranty LC, as the case may be, if the Contract Price is adjusted by an amount less than \$3,000,000 up or down”.

9. Change to Section 1.1(x) (Design Engineering Completion Date)

Section 1.1(x) (Design Engineering Completion Date) of the Original Agreement is deleted in its entirety and replaced with the following:

“**Design Engineering Completion Date** means, in respect of a Work Allocation, the date on which Design Engineering Completion is achieved for such Work Allocation.”

10. Change to Section 1.1(ff) (FAT Completion Date)

Section 1.1(ff) (FAT Completion Date) of the Original Agreement is deleted in its entirety and replaced with the following:

“**FAT Completion Date** means, in respect of a Work Allocation, the date on which FAT (Factory Acceptance Testing) Completion is achieved for such Work Allocation).”

11. Change to Section 1.1(iii) (Outside Design Engineering Completion Date)

Section 1.1(iii) (Outside Design Engineering Completion Date) of the Original Agreement is deleted in its entirety and replaced with the following:

“**Outside Design Engineering Completion Date** means, in respect of a Work Allocation, the outside date for Design Engineering Completion for such Work Allocation as set out in the Contract Schedule.”

12. Change to Section 1.1(jjj) (Outside FAT Completion Date)

Section 1.1(jjj) (Outside FAT Completion Date) of the Original Agreement is deleted in its entirety and replaced with the following:

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"Outside FAT Complete Date means, in respect of a Work Allocation, the outside date for FAT (Factory Acceptance Testing) Completion for such Work Allocation as set out in the Contract Schedule."

13. Change to Section 1.1(kkk) (Outside Unit Goods Delivered Completion Date)

Section 1.1(kkk) (Outside Unit Goods Delivered Completion Date) of the Original Agreement is deleted in its entirety and replaced with the following:

"Outside Unit Goods Delivered Completion Date means, in respect of a Work Allocation, the outside date for Unit Goods Delivered Completion for such Work Allocation as set out in the Contract Schedule."

14. Change to Section 1.1(oooo) (Unit Goods Delivered Completion)

Section 1.1(oooo) (Unit Goods Delivered Completion) of the Original Agreement is deleted in its entirety and replaced with the following:

"Unit Goods Delivered Completion means, in respect of a Work Allocation: (i) all long lead material has been delivered in accordance with section 2.10(a) and the Specifications at least 3 months prior to the Unit Breaker Open Date; and (ii) the remaining material has been delivered in accordance with section 2.10(a) and the Specifications at least 1 month prior the Unit Breaker Open Date."

15. Change to Section 1.1(pppp) (Unit Goods Delivered Completion Date)

Section 1.1(pppp) (Unit Goods Delivered Completion Date) of the Original Agreement is deleted in its entirety and replaced with the following:

"Unit Goods Delivered Completion Date means, in respect of a Work Allocation, the date on which Unit Goods Delivered Completion is achieved for such Work Allocation."

16. Change to Section 1.1(rrrr) (Unit Latent Defect Warranty Outside Date)

Section 1.1 (rrrr) (Unit Latent Defect Warranty Outside Date) of the Original Agreement is deleted in its entirety and replaced with the following:

"Unit Latent Defect Warranty Outside Date means:

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- (1) in respect of the first Unit to be refurbished:
 - (A) for all Work and Goods relating to the refurbishment outage of such Unit, the date that is 72 months from the end of the Unit Warranty Period for such Unit; and
 - (B) for all Work and Goods relating to the first planned outage following the refurbishment outage of such Unit, the date that is 28 months from the end of the Unit Warranty Period for such Unit;
- (2) in respect of the second Unit to be refurbished, the date that is 36 months from the end of the Unit Warranty Period for such Unit;
- (3) in respect of the third Unit to be refurbished, the date that is 19 months from the end of the Unit Warranty Period for such Unit; and
- (4) in respect of the fourth Unit to be refurbished, the end of the Unit Warranty Period for such Unit."

17. Addition of New Section 1.1(xxxx.1) (Work Allocation)

Add the following new section 1.1(xxxx.1) (Work Allocation) following section 1.1(xxxx) (Work) of the Original Agreement:

"Work Allocation means the allocation of Work and Goods by scope headings as specified in each column under the heading "Work Allocation" in "Table of Aggregate Costs" included in Attachment 7.1(c) (Milestone Payment Schedule) to Schedule 7.1 (Contract Price), read in conjunction with the master pricing table in Attachment 7.1(a) (Price Summary) to Schedule 7.1 (Contract Price)."

18. Change to Sections 8.2 (Schedule Disincentives), 8.3(b) (Payment of Schedule Disincentives) and 8.4 (Recovery Plan)

Sections 8.2 (Schedule Disincentives), 8.3(b) (Payment of Schedule Disincentives) and 8.4 (Recovery Plan) of the Original Agreement are changed as follows:

- (a) Section 8.2 (Schedule Disincentives) of the Original Agreement is deleted in its entirety and replaced with the following:

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“(a) **Calculation of Schedule Disincentives.** Subject to sections 8.3(b) as to timing and to the limit set out in section 8.2(b), the Contractor will pay OPG a disincentive amount calculated by determining the number of full calendar days by which, on a Work Allocation-by-Work Allocation basis, as applicable:

- (1) the Design Engineering Completion Date for the applicable Work Allocation exceeds the Outside Design Engineering Completion Date for such Work Allocation and multiplying the number of calendar days by an amount per week equal to 1% of the aggregate cost for the Design Engineering Completion milestone for such Work Allocation as set out in Attachment 7.1(c) to Schedule 7.1;
- (2) the FAT Completion Date for the applicable Work Allocation exceeds the Outside FAT Completion Date for such Work Allocation and multiplying the number of calendar days by an amount per week equal to 1% of the aggregate cost, for the FAT Completion milestone for such Work Allocation as set out in Attachment 7.1(c) to Schedule 7.1;
- (3) the Unit Goods Delivered Completion Date for the applicable Work Allocation exceeds the Outside Unit Goods Delivered Completion Date for such Work Allocation and multiplying the number of calendar days by an amount per week equal to 1% of the aggregate cost for the Unit Goods Delivered Completion milestone for such Work Allocation as set out in Attachment 7.1(c) to Schedule 7.1;
- (4) the date when the Contract Schedule milestone entitled “material delivery of the additional outage spare parts” is achieved (as per the completion requirements defined in the last column in Schedule 2.6(a)(1)) exceeds the date for the applicable Work Allocation set out in Schedule 2.6(a)(1) and multiplying the number of calendar days by an amount per week equal to 1% of the aggregate cost for the “material delivery of the additional outage spare parts” milestone for such Work Allocation as set out in Attachment 7.1(c) to Schedule 7.1; and
- (5) the date when the Contract Schedule milestone entitled “material delivery of the limited shelf life materials” is achieved (as per the

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completion requirements defined in the last column in Schedule 2.6(a)(1)) exceeds the date for the applicable Work Allocation set out in Schedule 2.6(a)(1) and multiplying the number of calendar days by an amount per week equal to 1% of the aggregate cost for the "material delivery of the limited shelf life materials" milestone for such Work Allocation as set out in Attachment 7.1(c) to Schedule 7.1.

- (b) The net amount derived from each such calculation will be payable by the Contractor to OPG subject to an overall limit, on a Work Allocation-by-Work Allocation basis, equal to 10% of the aggregate cost of the Fixed Price Work and/or Firm Price Work for the applicable Work Allocation as set out in Attachment 7.1(c) to Schedule 7.1."
- (b) Section 8.3(b) (Payment of Schedule Disincentives) of the Original Agreement is deleted in its entirety and replaced with the following:

"Payment of Schedule Disincentives. The calculation and payment of the schedule disincentive amounts referred to in section 8.2(a) will be deferred until the earlier of: (i) termination of this Agreement in accordance with Article 10 or Article 12; and (ii) the applicable Unit Goods Delivery Completion Date for the applicable Work Allocation as set out in Attachment 7.1(c) to Schedule 7.1."
- (c) Section 8.4 (Recovery Plan) of the Original Agreement is deleted in its entirety and replaced with the following:

"At any time after the Contractor accrues any schedule disincentives with respect to a Work Allocation, OPG may, in its sole discretion, request that the Contractor deliver to OPG within 5 Business Days a recovery plan, including supporting documentation, acceptable to OPG, acting reasonably, which will specify the steps that the Contractor intends to take so as to achieve the Unit Goods Delivered Completion Date for such Work Allocation by the Outside Unit Goods Delivered Completion Date for such Work Allocation or as soon as practicable thereafter and, in any event, within 90 calendar days of the Outside Unit Goods Delivered Completion Date for such Work Allocation (a **"Recovery Plan"**). Upon acceptance by OPG, the Contractor will promptly and continuously implement the Recovery Plan."

19. Change to Section 9.6(a)(1) (Unit Warranty Period)

Section 9.6(a)(1) (Unit Warranty Period) of the Original Agreement is deleted in its entirety and replaced with the following:

"Unit Warranty Period" means, on a Unit-by-Unit basis:

- (A) with respect to all Work and Goods relating to the refurbishment outage of such Unit, the period: (A) commencing on the earlier of: (i) the date such Unit is declared in-service by OPG following an outage (the **"Unit In-Service Date"**); and (ii) the Outside Unit In-Service Date for such Unit, and (B) ending on the earlier of: (i) the date that is three months after the actual end date of the first planned outage where inspections take place for such Unit, and (ii) the date that is 48 months from the earlier of: (x) the Unit In-Service Date for such Unit; and (y) and the Outside Unit In-Service Date for such Unit; and
- (B) with respect to all Work and Goods relating to the first planned outage following the refurbishment outage of the first Unit to be refurbished, the period: (A) commencing on the earlier of: (i) the Unit In-Service Date; and (ii) the Outside Unit In-Service Date for such Unit, and (B) ending on the earlier of: (i) the date that is three months after the actual end date of the second planned outage where inspections take place for such Unit, and (ii) the date that is 48 months from the earlier of: (x) the Unit In-Service Date for such Unit; and (y) and the Outside Unit In-Service Date for such Unit;

20. Change to Schedule 1.1(dddd) (Specifications)

Items 1 (Scope of Supply: Darlington Steam Turbine and Auxiliaries Refurbishment (NK38-SOW-41000-10002)), 2 (Scope of Supply: Darlington Generator and Auxiliaries Refurbishment (NK38-SOW-42000-10002)), 4 (Scope of Supply: Darlington Turbine Controls Upgrade (NK38-SOW-64100-10003)) and 5 (Scope of Supply: Darlington Generator Excitation Controls Upgrade (NK38-SOW-64220-10002)) listed in Schedule 1.1(dddd) (Specifications) of the Original Agreement are deleted in their entirety and replaced with the revised documents attached to this Agreement as Attachment A.

21. Change to Schedule 2.6(a)(1) (Contract Schedule)

Schedule 2.6(a)(1) (Contract Schedule) of the Original Agreement is deleted in its entirety and replaced with the revised Schedule 2.6(a)(1) (Contract Schedule) attached to this Agreement as Attachment B.

22. Change to Schedule 5.6 (Economic Cost Adjustment)

Schedule 5.6 (Economic Cost Adjustment) of the Original Agreement is changed to include the following paragraph at the bottom of section 2.3:

“All Adjustable Costs will be adjusted annually by OPG and the Contractor to reflect the total amount of the economic cost adjustment, calculated using the formula set out above. Such adjustment will be on an annual basis and will use either annual indexes or, where an index is not published annually, the average of the monthly published indexes for the year preceding the year in which the adjustment is made. All such adjustments will be documented in a Change Directive provided by OPG to the Contractor.”

23. Change to Schedule 7.1 (Contract Price)

Schedule 7.1 (Contract Price) of the Original Agreement is deleted in its entirety and replaced with the revised Schedule 7.1 (Contract Price) attached to this Agreement as Attachment C.

24. Change to Schedule 9.6(a) (Illustration of Warranty Period)

Schedule 9.6(a) (Illustration of Warranty Period) of the Original Agreement is deleted in its entirety and replaced with the revised Schedule 9.6(a) (Illustration of Warranty Period) attached to this Agreement as Attachment D.

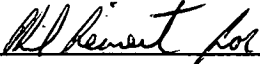
25. Original Agreement Remains in Full Force

Except for changes to the Original Agreement set out in this Agreement and any previous Amendment, the Original Agreement remains in full force, unamended.

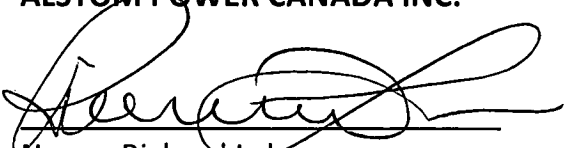
EXECUTION VERSION

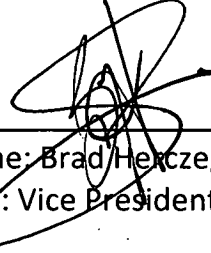
The Parties have duly executed this Agreement.

ONTARIO POWER GENERATION INC.

By: 
Name: Stephen Clives
Title: Chief Supply Officer

ALSTOM POWER CANADA INC.

By: 
Name: Richard Lake
Title: President

By: 
Name: Brad Herczeg
Title: Vice President

Schedule 1.1(dddd) was not included in OPG's filing

ATTACHMENT B

See attached revised Schedule 2.6(a)(1) (Contract Schedule)

A handwritten signature in black ink, appearing to be a stylized 'D' or 'Q' with a flourish.

Contract Schedule Milestone		Contract Schedule Milestone Dates							Contract Schedule Milestone Definition / Description	
		Modified dates due to Deferral and Unlapping							original as per contract	
		FSMS (Standalone Full Scope Maintenance Simulator (SFSMS)) HIL (Local Switchover Maintenance Simulator) & SIL	U2 1st Outage non deferred scope	U3 TC & EC Control Upgrade; TSS Cubical; Generator Auxiliary Skids; Bearing 5 Shaft ground: Deferred scope, reassigned scope of U2 to U3	U3 TG Mechanical Refurbishment	U1	U2 2nd Outage* (To be Confirmed)	U4		
1	Project Launch	April 2, 2013	April 2, 2013	April 2, 2013	a) Stator Midsection & U3 Rewind Kit: September 10, 2015 b) All Other Components and Scope: May 10, 2016	August 8, 2017	June 18, 2019	a) U4 Rewind Kit June 22, 2019 b) All Other Components and Scope: December 10, 2019	Upon Contract Award / PO to Equipment Supplier / Vendor (ESV) shall assign required resources as per the organization chart previously submitted to OPG and start engineering and project related activities. Equipment Supplier / Vendor (ESV) shall also hold internal kick-off meeting to communicate expectations and establish alignment prior to the start of work on subsequent Units. The Project Management Plan and Project Schedule / Progress Schedule will be submitted to OPG within 15 Business Days of the Project Launch Date for Unit 2 and will be updated as required.	
2	Long Lead Materials Identified	NA	October 4, 2013	NA	April 7, 2017	February 8, 2018	December 19, 2020	June 10, 2020	Equipment Supplier / Vendor (ESV) to provide list and description of materials that potentially have equal or greater than 16 months lead time for delivery from the time OPG approval has been granted to proceed with purchase. 6 Months after Project Launch for each Unit.	
3	Design Eng Complete ("Outside Design Engineering Completion Date")	NA	March 23, 2015		November 7, 2017	May 15, 2019	March 8, 2021	December 16, 2020	Design packages as well as Inspection and Test Plans (ITP) for equipment manufacture / fabrication have been submitted to OPG or OPG's Assignee / Designated Delegate(s) for Design Authority approval and incorporation of hold / witness points in manufacturing / fabrication ITPs. Equipment Supplier / Vendor (ESV) shall submit Software qualification procedure for OPG or OPG's Assignee / Designated Delegate(s) review / acceptance. Milestone is declared complete upon acceptance / approval of all submitted documents.	
3a	Design Eng Complete Stator Midsection and Rewind Kit ("Outside Design Engineering Completion Date")	NA	NA	NA	March 16, 2018	NA	NA	NA	Design packages as well as Inspection and Test Plans (ITP) for equipment manufacture / fabrication have been submitted to OPG or OPG's Assignee / Designated Delegate(s) for Design Authority approval and incorporation of hold / witness points in manufacturing / fabrication ITPs. Milestone is declared complete upon acceptance / approval of all submitted documents.	
3b	Completion of additional Storage Instructions, Test Procedures, and the like, required in conjunction with requested changes to the time schedule	NA	NA	October 22, 2015	NA	NA	NA	NA	Includes completion of all additional documents / documentation required such as Storage Instructions, Hardware Functional Test Procedure, Etc. required for the Deferral / Unlapping schedule change.	
4	Reimbursable Work Targets Prepared ("Reimbursable Work Target Cost")	NA	July 15, 2015	as required	as required	as required	as required	as required	Reimbursable Work Target Costs for Installation Support Work, Static Commissioning Work, and Dynamic Commissioning have been prepared and accepted by OPG or OPG's Assignee / Designated Delegate(s). Milestone is declared complete when the Reimbursable Work Target Costs for Installation Support Work, Static Commissioning Work, and Dynamic Commissioning have been prepared and accepted/ finalized by OPG for the respective Unit(s). Reimbursable Work Target Costs will be confirmed prior to Unit Breaker Open for the respective Unit(s).	
5	Source Code for OPG Simulator Testing	April 4, 2017	NA	as required *	NA	as required *	as required *	as required *	Equipment Supplier / Vendor (ESV) control logic source code / software has been submitted to OPG for start of OPG Simulator Testing and integration activities. ESV shall assign technical resource to coordinate and support OPG Simulator Testing requirements. Milestone is declared complete upon ESV submission of source code / software required for start of OPG Simulator Testing activities. Note: Sample code will be provided approximately 6 months prior to source code / software submission. Note: The software of the SIL will be adjusted / modified accordingly for software modified on any of the units (i.e. Units 1-4).	
6	Factory Acceptance Test (FAT) and Software Qualification Complete ("Outside FAT Completion Date")	NA	NA	April 4, 2017 (Note that milestone applies to TC & EC Control Upgrade)	NA	July 9, 2020	January 10, 2022	March 4, 2022	Equipment Supplier / Vendor (ESV) shall complete fabrication / manufacturing and testing activities at their own facilities in accordance with applicable technical specifications and fabrication ITPs as well as software qualification procedures. Upon OPG or OPG's Assignee / Designated Delegate(s) acceptance, Equipment Supplier / Vendor (ESV) shall submit a final report to OPG or assignee and prepare for delivery of supplied materials. Milestone is declared complete upon acceptance of final report by OPG or OPG's Assignee / Designated Delegate(s).	
6a	Factory Acceptance Test (FAT) for HIL and SFSMS and Interconnection Test EC & TC SFSMS	May 3, 2017	NA	NA	NA	NA	NA	NA	Equipment Supplier / Vendor (ESV) shall complete fabrication / manufacturing and testing activities at their own facilities in accordance with applicable technical specifications and fabrication ITPs as well as software qualification procedures. Upon OPG or OPG's Assignee / Designated Delegate(s) acceptance, Equipment Supplier / Vendor (ESV) shall submit a final report to OPG or assignee and prepare for delivery of supplied materials. Milestone is declared complete upon acceptance of final report by OPG or OPG's Assignee / Designated Delegate(s).	
6b	Storage Period Completion Date (incl. Preservation, De-/Remounting and HW Functional Date)	NA	NA	March 10, 2019*	NA	NA	NA	NA	Anticipated Storage Period Completion Date due to Deferral and Unlapping.	

7	Material Delivery ("Outside Unit Goods Delivered Completion Date")	NA	July 15, 2016	July 16, 2019	July 16, 2019	December 14, 2020	June 22, 2022	July 16, 2022	All supplied materials shall be delivered to OPG specified location in accordance with OPG or OPG's Assignee / Designated Delegate(s) shipping requirements for receipt inspection. Equipment Supplier / Vendor (ESV) shall provide technical experts for material handling and storage. Milestone is declared complete upon receipt inspection sign off. Start of Material Delivery Window will be no more than 4 months prior to Material Delivery Date for the respective Unit. For Unit subject to deferred scope, all Documentation that would otherwise have been delivered upon Material Delivery to site, including instructions, manuals, commissioning specifications, and the like, shall be delivered upon Material Delivery to storage.
7a	Material Delivery of FSMS (SFSMS) / HIL ("Outside Unit Goods Delivered Completion Date")	July 4, 2017	NA	NA	NA	NA	NA	NA	All supplied materials shall be delivered to OPG specified location in accordance with OPG or OPG's Assignee / Designated Delegate(s) shipping requirements for receipt inspection. Equipment Supplier / Vendor (ESV) shall provide technical experts for material handling and storage. Milestone is declared complete upon receipt inspection sign off.
7b	Material Delivery of the Additional Outage Spare Parts	NA	August 29, 2016	TBD	TBD	TBD	TBD	TBD	All supplied materials shall be delivered to OPG specified location in accordance with OPG or OPG's Assignee / Designated Delegate(s) shipping requirements for receipt inspection. Equipment Supplier / Vendor (ESV) shall provide technical experts for material handling and storage. Milestone is declared complete upon receipt inspection sign off. Start of Material Delivery Window will be no more than 4 months prior to Material Delivery Date for the respective Unit. For Unit subject to deferred scope, all Documentation that would otherwise have been delivered upon Material Delivery to site, including instructions, manuals, commissioning specifications, and the like, shall be delivered upon Material Delivery to storage.
7c	Material Delivery of the Limited Shelf Life Materials	NA	April 1, 2017 for Limited Shelf Life Materials - Batch One only September 1, 2017 for Limited Shelf Life Materials - Batch Two only	TBD	TBD	TBD	TBD	TBD	All supplied materials shall be delivered to OPG specified location in accordance with OPG or OPG's Assignee / Designated Delegate(s) shipping requirements for receipt inspection. Milestone is declared complete upon receipt inspection sign off.
8	OPG Simulator Testing & Commissioning Complete	October 22, 2017	as required	as required	as required	as required	as required	as required	All supplied logic codes / software submitted by Equipment Supplier / Vendor (ESV) have been installed and tested by OPG. Milestone is declared complete upon successful installation / testing of supplied items and acceptance by OPG or OPG's Assignee / Designated Delegate(s).
9	Unit Breaker Open ("Unit Breaker Open Date")	NA	October 15, 2016	October 15, 2019		March 15, 2021	September 22, 2022	October 15, 2022	Unit is cold / depressurized and in guaranteed shut down state.
10	Start of Turbine Generator Installation Window*	NA	May 15, 2017	January 13, 2020		June 14, 2021	September 29, 2022	May 27, 2023	Equipment Supplier / Vendor (ESV) shall provide technical experts and any required documentation to OPG or OPG's Assignee / Designated Delegate(s) during the installation window and for static commissioning. ESV shall also provide appropriate level of representation for status reporting and dealing with field installation issues. Milestone is declared complete upon arrival of technical experts on Darlington site and submission of support organization chart.
11	Mechanical Completion ("Unit Mechanical Completion Date")*	October 10, 2017	February 9, 2018	October 9, 2020		March 11, 2022	April 27, 2023	February 19, 2024	All field installation work and static commissioning is complete. All Equipment Supplier / Vendor (ESV) relevant documentation is complete and accepted by OPG or OPG's Assignee / Designated Delegate(s) for unit start-up. All Equipment Supplier / Vendor (ESV) relevant documentation in support of partial Available for Service has been signed off by OPG Design Authority. Preliminary date based on availability of 9 month work window to complete all installation and static commissioning work.
12	Training Complete	February 6, 2019	February 6, 2019	November 5, 2021		February 19, 2023	tbc	October 26, 2024	All relevant ESV training documentation developed and issued. All training delivered to OPG station Operations, Maintenance, and Engineering staff. All Operations and Maintenance information have been submitted by the ESV and accepted by OPG or OPG Assignee / Designated Delegate(s). Development and delivery of training material and documentation to meet OPG requirements may be required prior to completion date(s). OPG will identify requirements with the ESV to develop and deliver training to meet OPG's requirements based on a mutually agreed upon timeline.
13	Start of Dynamic Commissioning*	NA	June 19, 2019	March 18, 2022		August 28, 2023	April 27, 2023	March 5, 2025	Starts at steam to set and readiness for turning gear. Ends at steady state full power and includes all on power and transient testing of turbine generator equipment and auxiliaries. Preliminary window for completion of dynamic commissioning work is 8 to 12 weeks. Equipment Supplier / Vendor (ESV) shall complete all pre-requisites and preparatory work prior to start of Unit Dynamic Commissioning Work and provide technical experts and any required documentation to OPG or OPG's Assignee / Designated Delegate(s) during the commissioning window. Equipment Supplier / Vendor (ESV) shall also provide appropriate level of representation for status reporting and dealing with field installation issues.
14	Unit Substantial Completion ("Unit Substantial Completion Date")	NA	September 22, 2019	September 21, 2022		February 20, 2024	July 26, 2023	September 22, 2025	The unit has been declared In-service. All Unit Equipment Supplier / Vendor (ESV) relevant documentation is complete.

15	Demobilization & Unit Documentation Complete	NA	November 10, 2019	October 29, 2022	March 29, 2024	August 31, 2023	October 24, 2025	ESV shall provide appropriate level of representation to support Available-for-Service (AFS) declaration. All relevant Equipment Supplier / Vendor (ESV) documentation for unit full AFS has been provided and signed off by OPG Design Authority.
16	Final Completion	21 February 2026						All units Equipment Supplier / Vendor (ESV) relevant documentation has been provided and accepted by OPG or OPG's Assignee / Designated Delegate(s). All Equipment Supplier / Vendor (ESV) Work has been completed. All units declared In-service.

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ATTACHMENT C

ATTACHMENT C

Schedule 7.1 - Contract Price

This Schedule 7.1 includes the following attachments (collectively, the “Pricing Attachments”):

Attachment Number	Description
Attachment 7.1(a) Price Summary	Price summary Worksheet 1 Base Scope Summary
Attachment 7.1(b) Reimbursable Work and Other Reimbursable Costs	Worksheet 12 Reimbursable Work Target Cost Worksheet 13 Labour Worksheet 14 Tech Support Rate Sheet Worksheet 15 LOC Estimate Details Worksheet 16 TFA Reference U1 & 2 Worksheet 17 TFA Reference U3 & 4
Attachment 7.1(c) Milestone Payment Schedule	Worksheet 18 Table of Aggregate costs Worksheet 19 Supply Payment Milestones Worksheet 20 Invoicing Summary
Attachment 7.1(d) Optional Scope	Worksheet 2 Optional Scope Summary Worksheet 3 Contingency Scope Summary Worksheet 4 Gen Specific SOW Spares Worksheet 5 Gen Recomm Spares Worksheet 6 Gen Bushings Parts Worksheet 7 Gen Recomm Bushings Worksheet 8 Gen Aux SOW Spares Worksheet 9 Gen Recomm AUX Spares Worksheet 10 ST Specific SOW Spares Worksheet 11 ST Recomm Spares Discount Structure for Spare Parts
Attachment 7.1(e) Business Expense Schedule	Business Expense Schedule
Attachment 7.1(f) Foreign Exchange Adjustments	Process for Hedging of Euro Currency Amounts in the Contract Price. Worksheet 21 Change Directives Price Adjustment due to Hedging

P

Schedule 7.1 – Contract Price

Attachment 7.1 (a)

Price Summary

The Contract Price is \$368,047,000 in Canadian Dollars

The Average Unit Price is \$92,011,750.

The Aggregate Cost of the Fixed Price Work and/or Firm Price Work for Unit 2 is \$107,289,000 in Canadian Dollars.

The Aggregate Cost of the Fixed Price Work and/or Firm Price Work for Unit 3 is \$86,513,000 in Canadian Dollars.

The Aggregate Cost of the Fixed Price Work and/or Firm Price Work for Unit 1 is \$47,253,000 in Canadian Dollars.

The Aggregate Cost of the Fixed Price Work and/or Firm Price Work for Unit 4 is \$64,289,000 in Canadian Dollars.

Worksheet 1. Base Scope Summary forms part of this Attachment 7.1 (a).

Pricing is indicated in kCAD (in thousands of Canadian Dollars)

Pricing is based on currency exchange rates for CAD/EURO and CAD/USD in effect on January 29, 2013. Pricing will be adjusted to spot rates at time of contract award.

Bank of Canada noon Spot rates on January 29, 2013 were, 1CAD = 0.7395EURO, and 1CAD = 0.9971 USD

Worksheet 1 summarizes the contractual price buildup of bade scope as detailed in the following OPG SOW Documents as further detailed in the related Alstom technical descriptions (Appendix A in SOWs)

NK38-SOW-42000-10002

NK38-SOW-41000-10002

NK38-SOW-64100-10003

NK38-SOW-64220-10002



Schedule 7.1, Attachment 7.1(a)
Appendix A: Core Technical Advisor Residents

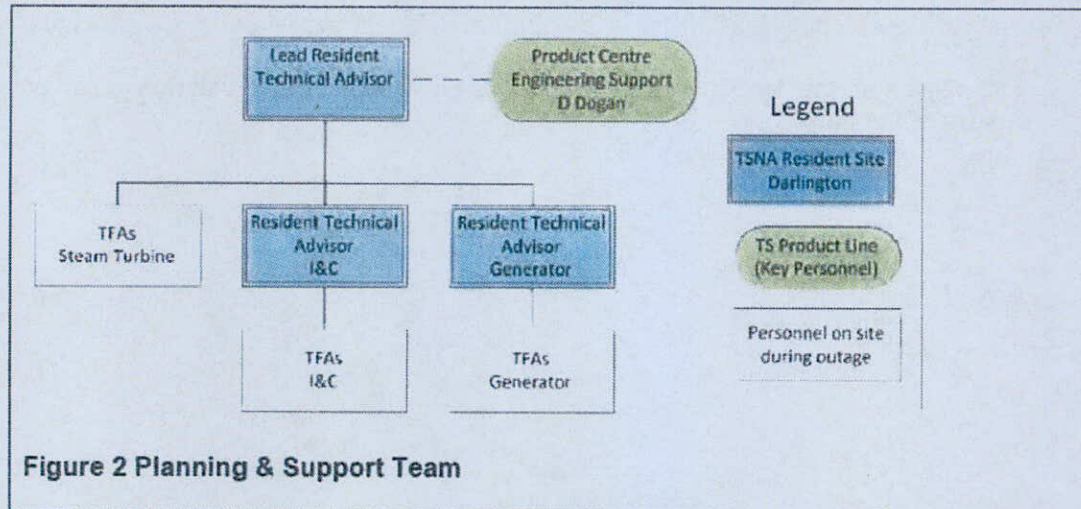


Figure Source – Preliminary Project Management Plan

The following table captures the basis for the firm price for the three Core Technical Advisor Residents (Refurbishment Outage Coordinators) as indicated in the above organization chart entitled Planning and Support Team:

Position	Start	Finish
ROC Lead	Second quarter 2013	Last Quarter 2025
ROC I+C	First quarter 2014	Last Quarter 2025
ROC Generator	First quarter 2016	Last Quarter 2025

Preliminary Roles and Responsibilities for the ROCs are as per the project Management plan included under schedule 2.7(b).

To further support the outage planning activities, 1000 hours of remote engineering support is included to further support the planning process through remote specialists. These hours will be tracked and reported to OPG as part of ongoing reporting. Further hours can be purchased at prevailing rates if required (refer to Tech Support Rate Sheets)

During non-outages time periods, ROCs hourly rates are based on 40 hour work weeks, Monday to Friday. 7 weeks per year are allocated for vacation and training.

During outages, ROCs will work a 50 hour work week, Monday to Friday.

Allocations for domestic or international travel for a maximum of once per annum are included. This will allow the resource to participate in remote planning, development training or meeting participation related to their role in the Project.

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Relocation costs of the ROCs to the Oshawa site are included.

ROCs will have dedicated Alstom Burlington office space until 2016. After this point, Office allocation shall be provided by OPG at site offices (DEC).

Cell phone, computer and Alstom IT support, and local travel expenses are included

It is anticipated that the ROC spends up to 3 days at Burlington office during the initial phases of the project.



Worksheet 1 - Base Scope Summary

1. Contract Price in KCAD (Equipment Supply)			Unit 2 1st Outage		Unit 3		Unit 3		Unit 1		Unit 2 2nd Outage		Unit 4		Reimbursible Cost			
SOW	SOW Clause	Base Scope Summary	Fixed	Reimb work	Fixed	Reimb work	Firm	Reimb work	Firm	Reimb work	Firm	Reimb work	Firm	Reimb work	Fixed/Firm	Shipping Cost	Initial Target Cost	Total
Generator & Aux	NK38-SOW-42000-10002 2.1.2 U3	New Stator mid-section					27,985								27,985			27,985
Generator & Aux	NK38-SOW-42000-10002 2.1.2 U3	Transportation of new stator mid-section - Estimated Cost						2,834									2,834	2,834
Generator & Aux	NK38-SOW-42000-10002 2.1.2 U4 & Spare	Stator Rewind (includes transportation of rewind kit to shop)					12,764						11,541		24,305			24,305
Generator & Aux	NK38-SOW-42000-10002 2.1.2 U4 & Spare	Transportation costs of stator mid-section for offsite rewind - estimated Cost						3,717						3,734			7,451	7,451
Generator & Aux	NK38-SOW-42000-10002 2.3 (c)	Hydrogen gas cooling skid including Generator Core monitor, Dew Point Purity Monitor, H2 Flow Monitor/Integrator	2,979						2,594		2,594		2,594		10,760			10,760
Generator & Aux	NK38-SOW-42000-10002 2.4 (d&d)	Stator Cooling Water Replacement including De-Oxidizing Heating, N2 Flow Monitor, Integrator, Conductivity	2,365						1,979		1,979		1,979		8,301			8,301
Generator & Aux	NK38-SOW-42000-10002 2.5 (c)	Seal Oil Skid At El. 115	389						311		311		311		1,324			1,324
Generator & Aux	NK38-SOW-42000-10002 5.0 (d)	Seal Oil Skid III at 107m	170						134		134		134		572			572
Generator & Aux	NK38-SOW-42000-10002 5.0 (a)	Seal Oil Skid At El.100 including Base Frame and Level Gauges full replacement	2,191						1,811		1,811		1,811		7,624			7,624
Generator & Aux	NK38-SOW-42000-10002 2.1.6	Current Transformers	296				296		296				296		1,184			1,184
Generator & Aux	NK38-SOW-42000-10002 2.1.2	End Shield & End Casing Machining					274						767		1,041			1,041
Generator & Aux	NK38-SOW-42000-10002 2.1.5 (d)	HV bushings	1390				1313		1313				1313		5,330			5,330
Generator & Aux	NK38-SOW-42000-10002	Unit Specific Spare Parts	1810				82		1737				82		3,710			3,710
Generator & Aux	NK38-SOW-42000-10002	Unit Aux SOW Spare Parts	185				145		145				145		621			621
Generator & Aux	NK38-SOW-42000-10002	Recommended Bushing Spare Parts	1163												1,163			1,163
Generator & Aux	NK38-SOW-42000-10002	Recommended Generator Spare Parts	1908												1,908			1,908
Generator & Aux	NK38-SOW-42000-10002	Recommended Auxiliary Spare Parts	106												106			106
Generator & Aux	NK38-SOW-42000-10002	Generator Customer Training		269			269		269				269				1,076	1,076
Generator & Aux	NK38-SOW-42000-10002	Equipment Rental		497			497		497				497				1,988	1,988
Generator & Aux	NK38-SOW-42000-10002	Technical Advisor and Specialist support - Initial Target cost		3,525			3,365		3,525				3,365				13,779	13,779
Generator & Aux	Change directive #002	2003 Measurement for Seal oil system and stator water system	110						80		80		80		350			350
Generator & Aux	Change directive #005	Year 2014 ECA					251.9		28.4				196.5		477			477
Generator & Aux	Change directive #009	Turbine Generators ESES	24.7						20.6		20.6		20.6		87			87
Generator & Aux	Change directive #003	Gen& Aux Bridging Solution	265.0												265			265
Generator & Aux	Change Directive#010	Generator Auxiliary Skids Storage	661.9												662			662
Generator & Aux	Change Directive#010	5.a) Seal oil system for unlapping			200.6										201			201
Generator & Aux	Change Directive#010	2.3 e) H2 Gas skid for unlapping			246.6										247			247
Generator & Aux	Change Directive#010	2.a, c, d) Stator water skid for unlapping			201.9										202			202
Generator & Aux	Change Directive#012	PRV and valves for the seal oil system	210.7				30.1		30.1				30.1		301			301
Generator & Aux	Change Directive#015	Additional work provided by the contractor in connection with action #038 IIA fabrication clause requirement			164.5				87.6		87.6		87.6		427			427
Generator & Aux Subtotal			16,224	4,291	814		43,142	10,682	10,567	4,291	7,017		21,388	7,865	99,151	10,285	16,843	126,279
Turbine & Aux	NK38-SOW-41000-10002 2.2.1 (c)	LP Blade Carrier Erosion Protecting Ring Modification	1,623				1,438		1,438				1,438		5,936			5,936
Turbine & Aux	NK38-SOW-41000-10002	Unit Specific Spare Parts	6581				4880		5248				4840		21,550			21,550
Turbine & Aux	NK38-SOW-41000-10002	Recommended Turbine Spare Parts	5103												5,103			5,103
Turbine & Aux	NK38-SOW-41000-10002	Turbine Customer Training		498			498		498				498				1,994	1,994
Turbine & Aux	NK38-SOW-41000-10002	Equipment Rental		21			21		21				21				84	84
Turbine & Aux	NK38-SOW-41000-10002	Technical Advisor and Specialist support - Initial Target cost		3,997			3,997		3,997				3,997				15,988	15,988
Turbine & Aux	Change directive #005	Year 2014 ECA					55.9		58.3				55.6		170			170
Turbine & Aux	Change directive #018	Additional Outage Spare Parts	76.3												76			76
Turbine & Aux Subtotal			13,383	4,517			6,374	4,517	6,744	4,517			6,333	4,517	32,834		18,067	50,901
Turbine Controls	NK38-SOW-64100-10003 1.0	Turbine Controls Upgrade Unit 1-4																
Turbine Controls	NK38-SOW-64100-10003 1.1	PAC	7,851						3,678		3,678		3,678		18,884			18,884
Turbine Controls	NK38-SOW-64100-10003 1.0	Turbine Controls Upgrade_Simulators	4,914												4,914			4,914
Turbine Controls	NK38-SOW-64100-10003 1.1	TSSM WP III	898						766		766.3		766		3,197			3,197
Turbine Controls	NK38-SOW-64100-10003 1.2	TSSM WP I	6,715.7				6,337		6,337		4,477.1		6,337		30,205			30,205
Turbine Controls	NK38-SOW-64100-10003 2.1.2	TGC Upgrade Option 2a WP II	706.4				928		928		470.9		928		3,961			3,961
Turbine Controls	NK38-SOW-64100-10003	Technical Advisor and Specialist support - Initial Target cost		3,061			3,061		3,061				3,061				12,249	12,249
Turbine Controls	Change directive #005	Year 2014 ECA					4.2		4.2				4.2		12			12
Turbine Controls	Change directive #007	Scope Reduction-HMI Engineering Stations in Uter	-52.6						-26.3		-26.3		-26.3		-131			-131
PAC	Change Directive#010	Additional impact due to unlapping			1,686.3										1,686			1,686
PAC	Change Directive#010	Additional impact due to deferral			1,493.4										1,493			1,493
TSSM	Change Directive#010	Additional impact due to Deferral of WP I+II of U2 (delay procurement after completion of Engineering of U2 1st Outage) until additional Engineering of U2 2nd Outage)									378.5				379			379
TSSM	Change Directive#010	Additional impact due to Deferral of WP III (storage of ~36 M and supply for U3)			400.1										400			400
TSSM	Change Directive#010	Additional impact Turbine Hydraulics WP I + II fix due to Unlapping U2 and U3			334.5										334			334
PAC	Change Directive#016	Turbine controls and Excitation controls software qualification			511.8										512			512
PAC	Change Directive#019	SFSMS Layout/Configuration Change	48.3												48			48
Turbine Control Subtotal			21,081	3,061	4,426		7,270	3,061	11,687	3,061	9,744		11,687	3,061	65,895		12,249	78,138
Exc Controls	NK38-SOW-64220-10002	Excitation Controls Upgrade	10,014						3,861		3,861		3,861		21,596			21,596
Exc Controls	NK38-SOW-64220-10002	Excitation Controls Upgrade_Simulators	2,751												2,751			2,751
Exc Controls	NK38-SOW-64220-10002	Technical Advisor and Specialist support - Initial Target cost		1,316			1,316		1,316				1,316				5,265	5,265
Exc Controls	Change directive #005	Year 2014 ECA							-0.6		-0.6		-0.6		-2			-2
PAC	Change Directive#010	Additional impact due to unlapping			1,725.5										1,725			1,725
PAC	Change Directive#010	Additional impact due to deferral			1,836.6										1,837			1,837
Excitation Controls Subtotal			12,765	1,316	3,562			1,316	3,860	1,316	3,860		3,860	1,316	27,908		5,265	33,172
Total			63,453	13,184	8,802		56,785	19,575	32,858	13,184	20,622		43,268	16,759	225,788	10,285	52,417	288,490

2. Contract Price in KUSD (Offsite Modification during Outage)			Unit 2		Unit 3		Unit 1		Unit 4		Reimbursible Cost			
SOW	SOW Clause	Base Scope Summary	Fixed	Reimb work	Fixed	Reimb work	Firm	Reimb work	Firm	Reimb work	Fixed/Firm	Shipping Cost	Initial Target Cost	Total
Generator & Aux	NK38-SOW-42000-10002 2.1.2 U4 & Spare	Stator Rewind in Richmond Shop					5,404				5,404		10,808	10,808
Generator & Aux	NK38-SOW-42000-10002 2.1.2	End Shield & End Casing Machining					90				180		270	270
Generator & Aux	Change directive #005	Year 2014 ECA					98.9				100.5		199	199
Subtotal							5,593				5,684		11,277	11,277
Turbine & Aux	NK38-SOW-41000-10002 2.2.1 (c)	LP Blade Carrier Erosion Protecting Ring Modification	297				297		297				1,189	1,189
Turbine & Aux	Change directive #005	Year 2014 ECA					5.3		5.3				16.0	16.0
Subtotal			297				303		303				1,205	1,205
Total (KUSD)			297				5,895		303		5,987		12,482	12,482
Total (KCAD Equivalent)			306				6,067		311		6,161		12,845	12,845

3. Core PM and Core TFA Residents in KCAD			Unit 2 1st Outage		Unit 3		Unit 3		Unit 1		Unit 2 2nd Outage		Unit 4		Reimbursible Cost			
SOW	SOW Clause	Base Scope Summary	Firm	Reimb work	Firm	Reimb work	Firm	Reimb work	Firm	Reimb work	Firm	Reimb work	Firm	Reimb work	Firm	Shipping Cost	Initial Target Cost	Total
Project Infrastructure	All	Core Project Management	17,007				9,713		9,551				9,571		45,842			45,842
Project Infrastructure	All	Core Technical Advisor Residents	4,040				3,937		3,385				4,140		15,502			15,502
Project Infrastructure	Change directive #005	Year 2014 ECA for Core Project Management	341				223		223				223		1,009			1,009
Project Infrastructure	Change directive #005	Year 2014 ECA for resident TFA	94				131		131				131		486			486
Project Infrastructure	Change directive #008	EDMS Resource	74												74			74
Project Infrastructure	Change Directive#010	Core Project Management	1,388				793		779				781		3,741			3,741
Project Infrastructure		Core Technical Advisor Residents	-12												-12			-12
Project Infrastructure	Change Directive#011	Outage Parts Monthly Reporting	26.3				15.0		14.8				14.8		70.8			70.8
Total			22,957				14,811		14,083				14,861		66,712			66,712

Schedule 7.1 - Contract Price

Attachment 7.1(b)

Reimbursable Work and Other Reimbursable Costs

This Attachment 7.1(b) sets out the pricing details for Dynamic Commissioning Work, Installation Support Work, Static Commissioning Work, and Reimbursable Work.

Other Reimbursable Costs

Reimbursable Transportation Costs

Transportation and Heavy Lift Costs – Stator Midsection

- Transportation costs associated with Stator Midsection (new and during rewind activity) will be billed at cost plus 6%
- The values in any worksheet are based on initial estimates secured by Alstom.
- Alstom will establish appropriate gates with OPG during the supply chain process of vendor selection.

Hedging Costs

Estimated hedging cost or estimated escalation cost (except Unit 2 Fixed price work). The hedging process is set out in Schedule 7.1 Attachment 7.1(f).

Travel and Expenses

The schedule for allowable travel and expenses is set out in Schedule 7.1, Attachment 7.1(e).

Letter of Credit Costs

Letter of Credit costs are reimbursable.

Worksheets 12, 13, 14, 15, 16, and 17 form part of this Attachment 7.1(b)

Worksheets 12, 16 and 17 show Technical Support Details (including Training Support)

Technical Support during installation and commissioning:

- These worksheets covers the initial estimate of Technical Support over the course of the outage execution. Basis for estimate showing durations associated with each specialist.

- This worksheet captures the specific preliminary training support estimate on a unit-by-unit, resource-by-resource basis. Similar to Technical support requirements, this scope needs to be planned to align with OPG needs and requirements. The basis for estimate has been provided for site training personnel.
- Estimated pricing includes a 9.0% discount applied to the rate sheet included under worksheet 15
- Travel expenses have been estimated on a per resource basis and summarized in worksheet 1

Worksheet 13, 14 - Technical Support Rate Sheet

- These worksheet captures the rate sheet applicable at time of order. Rates would be subject to escalation as per escalation formulas outlined in Schedule 5.6

Worksheet 15 - LOC Estimate details

- This worksheet captures the estimate for LOC costs which will be billed at cost to OPG on a quarterly basis.

8

- Travel expenses have been estimated on a per resource basis and summarized in worksheet 1
- Alstom supplied specialized tooling is identified in the worksheets and associated with the appropriate SOW element.
- Outage management support from the Technology center, Mannheim, is included in the TFA rates. Note that the planned scope Vacuum drying tool and procedure included in the Technical advisor rates
- HV testing equipment rental shall be rented by EPC contractor
- Technical support recommendation is for base scope only. Support of optional or contingency scope will need to be evaluated as part of the planning exercise
- Estimated pricing includes a 9.0% discount applied to the rate sheet included under worksheet 12. Final discount will be based on the total pricing of technical advisors as per the following table:

Cumulative Technical Support Volume for four units (prior to discount)	Discount: Applied to Supplied OPG Technical Support rate sheet (Work sheet 14 of price workbook)
Greater than 60 MCAD	9 %
45 – 60 MCAD	7.5 %
35 – 45 MCAD	4.5 %
Less than 35 MCAD	0 %

- Note that a safety representative will be required in the event of Alstom site team exceeds 50 people at any time during site execution.

Onsite Training Support Details:



Back to Base Scope Summary

Reimbursable Work Target Cost (Unescalated)

Worksheet 12

WBS / SOW	Resources							Unit 2		Unit 1		Unit 3		Unit 4	
	Ref	Class	Normal / Overtime	Base Rate	Discount	Adjust. Rate	Numbers of TFA	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs
1 TURBINE & AUXILIARIES									\$ 4,516,649		\$ 4,516,649		\$ 4,516,649		\$ 4,516,649
1.1 Installation Support									\$ 2,121,891		\$ 2,121,891		\$ 2,121,891		\$ 2,121,891
1.1.1 Turbine General									\$ 108,474		\$ 108,474		\$ 108,474		\$ 108,474
Assessment TFA	13	TFA Class E	1x	349.0	9%	317.6	1	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407
Assessment TFA Travel Time	13	TFA Class E	1x	349.0	9%	317.6	1	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244
Assessment TFA	14	TFA Class E	1.5x	467.0	9%	425.0	1	20 hrs	\$ 8,499	20 hrs	\$ 8,499	20 hrs	\$ 8,499	20 hrs	\$ 8,499
SCC NDT Specialist	13	TFA Class E	1x	349.0	9%	317.6	1	104 hrs	\$ 33,029	104 hrs	\$ 33,029	104 hrs	\$ 33,029	104 hrs	\$ 33,029
SCC NDT Specialist Travel Time	13	TFA Class E	1x	349.0	9%	317.6	1	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244
SCC NDT Specialist	14	TFA Class E	1.5x	467.0	9%	425.0	1	26 hrs	\$ 11,049	26 hrs	\$ 11,049	26 hrs	\$ 11,049	26 hrs	\$ 11,049
1.1.2 HP Turbine									\$ 144,912		\$ 144,912		\$ 144,912		\$ 144,912
HP Lead TFA	7	TFA Class C	1x	290.0	9%	263.9	1	376 hrs	\$ 99,226	376 hrs	\$ 99,226	376 hrs	\$ 99,226	376 hrs	\$ 99,226
HP Lead TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	1	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667
HP Lead TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	94 hrs	\$ 33,018	94 hrs	\$ 33,018	94 hrs	\$ 33,018	94 hrs	\$ 33,018
									\$ -		\$ -		\$ -		\$ -
1.1.3 LP Turbine (LP1, LP2, and LP3)									\$ 803,648		\$ 803,648		\$ 803,648		\$ 803,648
LP Lead TFA	7	TFA Class C	1x	290.0	9%	263.9	2	856 hrs	\$ 451,797	856 hrs	\$ 451,797	856 hrs	\$ 451,797	856 hrs	\$ 451,797
LP Lead TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	2	96 hrs	\$ 50,669	96 hrs	\$ 50,669	96 hrs	\$ 50,669	96 hrs	\$ 50,669
LP Lead TFA	8	TFA Class C	1.5x	386.0	9%	351.3	2	214 hrs	\$ 150,339	214 hrs	\$ 150,339	214 hrs	\$ 150,339	214 hrs	\$ 150,339
Trombik	13	TFA Class E	1x	349.0	9%	317.6	1	248 hrs	\$ 78,762	248 hrs	\$ 78,762	248 hrs	\$ 78,762	248 hrs	\$ 78,762
Trombik Travel Time	13	TFA Class E	1x	349.0	9%	317.6	1	144 hrs	\$ 45,733	144 hrs	\$ 45,733	144 hrs	\$ 45,733	144 hrs	\$ 45,733
Trombik	14	TFA Class E	1.5x	467.0	9%	425.0	1	62 hrs	\$ 26,348	62 hrs	\$ 26,348	62 hrs	\$ 26,348	62 hrs	\$ 26,348
									\$ -		\$ -		\$ -		\$ -
1.1.4 Main Steam HP Valves and Steam Chests									\$ 255,459		\$ 255,459		\$ 255,459		\$ 255,459
HP&MSR TFA	7	TFA Class C	1x	290.0	9%	263.9	1	512 hrs	\$ 135,117	512 hrs	\$ 135,117	512 hrs	\$ 135,117	512 hrs	\$ 135,117
HP&MSR TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	1	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667
HP&MSR TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	128 hrs	\$ 44,961	128 hrs	\$ 44,961	128 hrs	\$ 44,961	128 hrs	\$ 44,961
Assessment TFA	13	TFA Class E	1x	349.0	9%	317.6	1	112 hrs	\$ 35,570	112 hrs	\$ 35,570	112 hrs	\$ 35,570	112 hrs	\$ 35,570
Assessment TFA Travel Time	13	TFA Class E	1x	349.0	9%	317.6	1	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244
Assessment TFA	14	TFA Class E	1.5x	467.0	9%	425.0	1	28 hrs	\$ 11,899	28 hrs	\$ 11,899	28 hrs	\$ 11,899	28 hrs	\$ 11,899
									\$ -		\$ -		\$ -		\$ -
1.1.5 Main Steam LP Valves									\$ 488,230		\$ 488,230		\$ 488,230		\$ 488,230
LP TFA	7	TFA Class C	1x	290.0	9%	263.9	1	1,064 hrs	\$ 280,790	1,064 hrs	\$ 280,790	1,064 hrs	\$ 280,790	1,064 hrs	\$ 280,790
LP TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	3	144 hrs	\$ 114,005	144 hrs	\$ 114,005	144 hrs	\$ 114,005	144 hrs	\$ 114,005
LP TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	266 hrs	\$ 93,435	266 hrs	\$ 93,435	266 hrs	\$ 93,435	266 hrs	\$ 93,435
									\$ -		\$ -		\$ -		\$ -
1.1.6 Extraction Non Return Valves									\$ 71,755		\$ 71,755		\$ 71,755		\$ 71,755
Check Valves TFA	7	TFA Class C	1x	290.0	9%	263.9	1	168 hrs	\$ 44,335	168 hrs	\$ 44,335	168 hrs	\$ 44,335	168 hrs	\$ 44,335
Check Valves TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	1	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667
Check Valves TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	42 hrs	\$ 14,753	42 hrs	\$ 14,753	42 hrs	\$ 14,753	42 hrs	\$ 14,753

Base Scope Summary

Reversible Work Target Cost (Unescalated)

Wneet 12

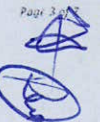
WBS / SOW	Resources							Unit 2		Unit 1		Unit 3		Unit 4	
	Ref	Class	Normal / Overtime	Base Rate	Discount	Adjust. Rate	Numbers of TFA	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs
1.1 Site Specific Training		-	-	-	-	-	-		\$ -		\$ -		\$ -		\$ -
P TFA	7	TFA Class C	1x	290.0	9%	263.9	1	80 hrs	\$ 21,112	80 hrs	\$ 21,112	80 hrs	\$ 21,112	80 hrs	\$ 21,112
P TFA	7	TFA Class C	1x	290.0	9%	263.9	3	80 hrs	\$ 63,336	80 hrs	\$ 63,336	80 hrs	\$ 63,336	80 hrs	\$ 63,336
Turbine Assessment TFA	13	TFA Class E	1x	349.0	9%	317.6	1	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407
Combustion Specialist	13	TFA Class E	1x	349.0	9%	317.6	1	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407
CCNDT Specialist	13	TFA Class E	1x	349.0	9%	317.6	1	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407
Slave TFA's	7	TFA Class C	1x	290.0	9%	263.9	3	80 hrs	\$ 63,336	80 hrs	\$ 63,336	80 hrs	\$ 63,336	80 hrs	\$ 63,336
Slave Assessment TFA	13	TFA Class E	1x	349.0	9%	317.6	1	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407
		-	-	-	-	-	-		\$ -		\$ -		\$ -		\$ -
1.3 Dynamic Commissioning Support		-	-	-	-	-	-		\$ 1,875,187		\$ 1,875,187		\$ 1,875,187		\$ 1,875,187
1.3.1 Turbine General		-	-	-	-	-	-		\$ 1,754,849		\$ 1,754,849		\$ 1,754,849		\$ 1,754,849
CC Engineer	10	TFA Class D	1x	326.0	9%	296.7	1	768 hrs	\$ 227,835	768 hrs	\$ 227,835	768 hrs	\$ 227,835	768 hrs	\$ 227,835
CC Engineer Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479
CC Engineer	11	TFA Class D	1.5x	435.0	9%	395.9	1	354 hrs	\$ 140,131	354 hrs	\$ 140,131	354 hrs	\$ 140,131	354 hrs	\$ 140,131
CC Engineer	12	TFA Class D	2x	544.0	9%	495.0	1	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286
CC Engineer	17	TFA Class D Nightshift	1x	374.9	9%	341.2	1	360 hrs	\$ 122,817	360 hrs	\$ 122,817	360 hrs	\$ 122,817	360 hrs	\$ 122,817
CC Engineer Travel Time	17	TFA Class D Nightshift	1x	374.9	9%	341.2	1	48 hrs	\$ 16,376	48 hrs	\$ 16,376	48 hrs	\$ 16,376	48 hrs	\$ 16,376
CC Engineer	18	TFA Class D Nightshift	1.5x	500.3	9%	455.2	1	252 hrs	\$ 114,717	252 hrs	\$ 114,717	252 hrs	\$ 114,717	252 hrs	\$ 114,717
CC Engineer	19	TFA Class D Nightshift	2x	625.6	9%	569.3	1	144 hrs	\$ 81,979	144 hrs	\$ 81,979	144 hrs	\$ 81,979	144 hrs	\$ 81,979
Access TFA	10	TFA Class D	1x	326.0	9%	296.7	1	768 hrs	\$ 227,835	768 hrs	\$ 227,835	768 hrs	\$ 227,835	768 hrs	\$ 227,835
Access TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479
Access TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	354 hrs	\$ 140,131	354 hrs	\$ 140,131	354 hrs	\$ 140,131	354 hrs	\$ 140,131
Access TFA	12	TFA Class D	2x	544.0	9%	495.0	1	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286
Access TFA	17	TFA Class D Nightshift	1x	374.9	9%	341.2	1	360 hrs	\$ 122,817	360 hrs	\$ 122,817	360 hrs	\$ 122,817	360 hrs	\$ 122,817
Access TFA Travel Time	17	TFA Class D Nightshift	1x	374.9	9%	341.2	1	48 hrs	\$ 16,376	48 hrs	\$ 16,376	48 hrs	\$ 16,376	48 hrs	\$ 16,376
Access TFA	18	TFA Class D Nightshift	1.5x	500.3	9%	455.2	1	252 hrs	\$ 114,717	252 hrs	\$ 114,717	252 hrs	\$ 114,717	252 hrs	\$ 114,717
Access TFA	19	TFA Class D Nightshift	2x	625.6	9%	569.3	1	144 hrs	\$ 81,979	144 hrs	\$ 81,979	144 hrs	\$ 81,979	144 hrs	\$ 81,979
Integration TFA	13	TFA Class E	1x	349.0	9%	317.6	1	160 hrs	\$ 50,814	160 hrs	\$ 50,814	160 hrs	\$ 50,814	160 hrs	\$ 50,814
Integration TFA Travel Time	13	TFA Class E	1x	349.0	9%	317.6	1	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244
Integration TFA	14	TFA Class E	1.5x	467.0	9%	425.0	1	112 hrs	\$ 47,597	112 hrs	\$ 47,597	112 hrs	\$ 47,597	112 hrs	\$ 47,597
Integration TFA	15	TFA Class E	2x	583.0	9%	530.5	1	64 hrs	\$ 33,954	64 hrs	\$ 33,954	64 hrs	\$ 33,954	64 hrs	\$ 33,954

Back to Scope Summary

Reinsable Work Target Cost (Unescalated)

Worlet 12

WBS / SOW	Resources							Unit 2		Unit 1		Unit 3		Unit 4	
	Ref	Class	Normal / Overtime	Base Rate	Disco unit	Adjust. Rate	Numbers of TFA	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs
1.3.2 : Specific Training		-	-	-					\$ -		\$ -		\$ -		\$ -
Islamic Commissioning TFA	10	TFA Class D	1x	326.0	9%	296.7	4	80 hrs	\$ 120,338	80 hrs	\$ 120,338	80 hrs	\$ 120,338	80 hrs	\$ 120,338
ation TFA	13	TFA Class E	1x	349.0	9%	317.6	1	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407
		-	-	-					\$ -		\$ -		\$ -		\$ -
1.4 : Operator Training		-	-	-					\$ 498,471		\$ 498,471		\$ 498,471		\$ 498,471
: TFA for Operator Training	10	TFA Class D	1x	326.0	9%	296.7	2	432 hrs	\$ 256,314	432 hrs	\$ 256,314	432 hrs	\$ 256,314	432 hrs	\$ 256,314
: TFA for Operator Training Travel Time	10	TFA Class D	1x	326.0	9%	296.7	2	48 hrs	\$ 28,479	48 hrs	\$ 28,479	48 hrs	\$ 28,479	48 hrs	\$ 28,479
: TFA for Operator Training	11	TFA Class D	1.5x	435.0	9%	395.9	2	100 hrs	\$ 79,170	100 hrs	\$ 79,170	100 hrs	\$ 79,170	100 hrs	\$ 79,170
bine Controls upgrade training TFA	10	TFA Class D	1x	326.0	9%	296.7	1	312 hrs	\$ 92,558	312 hrs	\$ 92,558	312 hrs	\$ 92,558	312 hrs	\$ 92,558
bine Controls upgrade training TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240
bine Controls upgrade training TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	70 hrs	\$ 27,710	70 hrs	\$ 27,710	70 hrs	\$ 27,710	70 hrs	\$ 27,710
		-	-	-					\$ -		\$ -		\$ -		\$ -
1.5 : Equipment Rental									\$ 21,100		\$ 21,100		\$ 21,100		\$ 21,100
NDT Equipment Rental - HP & LP Rotors		7400		685.0			1	20 days	\$ 21,100	20 days	\$ 21,100	20 days	\$ 21,100	20 days	\$ 21,100
		-	-	-					\$ -		\$ -		\$ -		\$ -
2 GENERATOR & AUXILIARIES		-	-	-					\$ 4,290,639		\$ 4,290,639		\$ 4,130,874		\$ 4,130,874
2.1 : Installation Support		-	-	-					\$ 1,506,594		\$ 1,506,594		\$ 1,346,829		\$ 1,346,829
2.1.1 : Generator		-	-	-					\$ 431,143		\$ 431,143		\$ 518,369		\$ 518,369
enerator TFA	7	TFA Class C	1x	290.0	9%	263.9	1	696 hrs	\$ 183,674	696 hrs	\$ 183,674	944 hrs	\$ 249,122	944 hrs	\$ 249,122
enerator TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	1	96 hrs	\$ 25,334	96 hrs	\$ 25,334	96 hrs	\$ 25,334	96 hrs	\$ 25,334
enerator TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	174 hrs	\$ 61,119	174 hrs	\$ 61,119	236 hrs	\$ 82,897	236 hrs	\$ 82,897
IS TFA	13	TFA Class E	1x	349.0	9%	317.6	1	272 hrs	\$ 86,384	272 hrs	\$ 86,384	272 hrs	\$ 86,384	272 hrs	\$ 86,384
IS TFA Travel Time	13	TFA Class E	1x	349.0	9%	317.6	1	144 hrs	\$ 45,733	144 hrs	\$ 45,733	144 hrs	\$ 45,733	144 hrs	\$ 45,733
IS TFA	14	TFA Class E	1.5x	467.0	9%	425.0	1	68 hrs	\$ 28,898	68 hrs	\$ 28,898	68 hrs	\$ 28,898	68 hrs	\$ 28,898
		-	-	-					\$ -		\$ -		\$ -		\$ -
2.1.2 : Motor		-	-	-					\$ 148,749		\$ 148,749		\$ 148,749		\$ 148,749
otor Specialist	10	TFA Class D	1x	326.0	9%	296.7	2	152 hrs	\$ 90,185	152 hrs	\$ 90,185	152 hrs	\$ 90,185	152 hrs	\$ 90,185
otor Specialist Travel Time	10	TFA Class D	1x	326.0	9%	296.7	2	48 hrs	\$ 28,479	48 hrs	\$ 28,479	48 hrs	\$ 28,479	48 hrs	\$ 28,479
otor Specialist	11	TFA Class D	1.5x	435.0	9%	395.9	2	38 hrs	\$ 30,085	38 hrs	\$ 30,085	38 hrs	\$ 30,085	38 hrs	\$ 30,085
		-	-	-					\$ -		\$ -		\$ -		\$ -
2.1.3 : Motor		-	-	-					\$ 518,105		\$ 518,105		\$ 289,242		\$ 289,242
cal Winders	1	TFA Class A	1x	249.0	9%	226.6	3	232 hrs	\$ 157,707	232 hrs	\$ 157,707	248 hrs	\$ 168,583	248 hrs	\$ 168,583
cal Winders Travel Time	1	TFA Class A	1x	249.0	9%	226.6	3	64 hrs	\$ 43,505	64 hrs	\$ 43,505	24 hrs	\$ 16,314	24 hrs	\$ 16,314
cal Winders	2	TFA Class A	1.5x	331.0	9%	301.2	3	58 hrs	\$ 52,411	58 hrs	\$ 52,411	62 hrs	\$ 56,025	62 hrs	\$ 56,025
stom Winders	1	TFA Class A	1x	249.0	9%	226.6	3	256 hrs	\$ 174,021	256 hrs	\$ 174,021	88 hrs	\$ 19,940	88 hrs	\$ 19,940
stom Winders Travel Time	1	TFA Class A	1x	249.0	9%	226.6	3	48 hrs	\$ 32,629	48 hrs	\$ 32,629	96 hrs	\$ 21,753	96 hrs	\$ 21,753
stom Winders	2	TFA Class A	1.5x	331.0	9%	301.2	3	64 hrs	\$ 57,832	64 hrs	\$ 57,832	22 hrs	\$ 6,627	22 hrs	\$ 6,627
		-	-	-					\$ -		\$ -		\$ -		\$ -



Basic Scope Summary

Reasable Work Target Cost (Unescalated)

Sheet 12

WBS / SOW	Resources							Unit 2		Unit 1		Unit 3		Unit 4	
	Ref	Class	Normal / Overtime	Base Rate	Discount	Adjust. Rate	Numbers of TFA	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs
2.1. Hydrogen Gas Cooling System															
2 Specialist	10	TFA Class D	1x	326.0	9%	296.7	1	320 hrs	\$ 94,931	320 hrs	\$ 94,931	320 hrs	\$ 94,931	320 hrs	\$ 94,931
2 Specialist Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240
2 Specialist	11	TFA Class D	1.5x	435.0	9%	395.9	1	80 hrs	\$ 31,668	80 hrs	\$ 31,668	80 hrs	\$ 31,668	80 hrs	\$ 31,668
									\$ -		\$ -		\$ -		\$ -
2.1.1. Specific Training									\$ 267,758		\$ 267,758		\$ 249,631		\$ 249,631
Generator & Rotor TFA	7	TFA Class C	1x	290.0	9%	263.9	4	80 hrs	\$ 84,448	80 hrs	\$ 84,448	80 hrs	\$ 84,448	80 hrs	\$ 84,448
Finders	1	TFA Class A	1x	249.0	9%	226.6	6	80 hrs	\$ 108,763	80 hrs	\$ 108,763	80 hrs	\$ 90,636	80 hrs	\$ 90,636
IRIS TFA	13	TFA Class E	1x	349.0	9%	317.6	2	80 hrs	\$ 50,814	80 hrs	\$ 50,814	80 hrs	\$ 50,814	80 hrs	\$ 50,814
2 Specialist	10	TFA Class D	1x	326.0	9%	296.7	1	80 hrs	\$ 23,733	80 hrs	\$ 23,733	80 hrs	\$ 23,733	80 hrs	\$ 23,733
									\$ -		\$ -		\$ -		\$ -
2.3. Dynamic Commissioning Support									\$ 2,017,981		\$ 2,017,981		\$ 2,017,981		\$ 2,017,981
2.3.1. Main Generator									\$ 1,899,317		\$ 1,899,317		\$ 1,899,317		\$ 1,899,317
Dynamic Commissioning TFA	10	TFA Class D	1x	326.0	9%	296.7	1	768 hrs	\$ 227,835	768 hrs	\$ 227,835	768 hrs	\$ 227,835	768 hrs	\$ 227,835
Dynamic Commissioning TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479
Dynamic Commissioning TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	354 hrs	\$ 140,131	354 hrs	\$ 140,131	354 hrs	\$ 140,131	354 hrs	\$ 140,131
Dynamic Commissioning TFA	12	TFA Class D	2x	544.0	9%	495.0	1	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286
Dynamic Commissioning TFA	17	TFA Class D Nightshift	1x	374.9	9%	341.2	1	360 hrs	\$ 122,817	360 hrs	\$ 122,817	360 hrs	\$ 122,817	360 hrs	\$ 122,817
Dynamic Commissioning TFA Travel Time	17	TFA Class D Nightshift	1x	374.9	9%	341.2	1	48 hrs	\$ 16,376	48 hrs	\$ 16,376	48 hrs	\$ 16,376	48 hrs	\$ 16,376
Dynamic Commissioning TFA	18	TFA Class D Nightshift	1.5x	500.3	9%	455.2	1	252 hrs	\$ 114,717	252 hrs	\$ 114,717	252 hrs	\$ 114,717	252 hrs	\$ 114,717
Dynamic Commissioning TFA	19	TFA Class D Nightshift	2x	625.6	9%	569.3	1	144 hrs	\$ 81,979	144 hrs	\$ 81,979	144 hrs	\$ 81,979	144 hrs	\$ 81,979
Dynamic Commissioning Specialist	10	TFA Class D	1x	326.0	9%	296.7	1	360 hrs	\$ 106,798	360 hrs	\$ 106,798	360 hrs	\$ 106,798	360 hrs	\$ 106,798
Dynamic Commissioning Specialist Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240
Dynamic Commissioning Specialist	11	TFA Class D	1.5x	435.0	9%	395.9	1	252 hrs	\$ 99,754	252 hrs	\$ 99,754	252 hrs	\$ 99,754	252 hrs	\$ 99,754
Dynamic Commissioning Specialist	12	TFA Class D	2x	544.0	9%	495.0	1	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286
Dynamic Commissioning TFA	10	TFA Class D	1x	326.0	9%	296.7	1	768 hrs	\$ 227,835	768 hrs	\$ 227,835	768 hrs	\$ 227,835	768 hrs	\$ 227,835
Dynamic Commissioning TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479
Dynamic Commissioning TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	354 hrs	\$ 140,131	354 hrs	\$ 140,131	354 hrs	\$ 140,131	354 hrs	\$ 140,131
Dynamic Commissioning TFA	12	TFA Class D	2x	544.0	9%	495.0	1	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286	144 hrs	\$ 71,286
Dynamic Commissioning TFA	17	TFA Class D Nightshift	1x	374.9	9%	341.2	1	360 hrs	\$ 122,817	360 hrs	\$ 122,817	360 hrs	\$ 122,817	360 hrs	\$ 122,817
Dynamic Commissioning TFA Travel Time	17	TFA Class D Nightshift	1x	374.9	9%	341.2	1	48 hrs	\$ 16,376	48 hrs	\$ 16,376	48 hrs	\$ 16,376	48 hrs	\$ 16,376
Dynamic Commissioning TFA	18	TFA Class D Nightshift	1.5x	500.3	9%	455.2	1	252 hrs	\$ 114,717	252 hrs	\$ 114,717	252 hrs	\$ 114,717	252 hrs	\$ 114,717
Dynamic Commissioning TFA	19	TFA Class D Nightshift	2x	625.6	9%	569.3	1	144 hrs	\$ 81,979	144 hrs	\$ 81,979	144 hrs	\$ 81,979	144 hrs	\$ 81,979

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Reimable Work Target Cost (Unescalated)

Worlet 12

WBS / SOW	Resources							Unit 2		Unit 1		Unit 3		Unit 4	
	Ref	Class	Normal / Overtime	Base Rate	Discount	Adjust. Rate	Numbers of TFA	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs
2.3.2 Specific Training		-	-	-	-	-	-		\$ 118,664		\$ 118,664		\$ 118,664		\$ 118,664
Dynamic Commissioning TFA's	10	TFA Class D	1x	326.0	9%	296.7	5	80 hrs	\$ 118,664	80 hrs	\$ 118,664	80 hrs	\$ 118,664	80 hrs	\$ 118,664
		-	-	-	-	-	-		\$ -		\$ -		\$ -		\$ -
2.4 tomer Training		-	-	-	-	-	-		\$ 269,014		\$ 269,014		\$ 269,014		\$ 269,014
tation Controls Upgrade Training	10	TFA Class D	1x	326.0	9%	296.7	1	312 hrs	\$ 92,558	312 hrs	\$ 92,558	312 hrs	\$ 92,558	312 hrs	\$ 92,558
tation Controls Upgrade Training Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240
tation Controls Upgrade Training Training	11	TFA Class D	1.5x	435.0	9%	395.9	1	70 hrs	\$ 27,710	70 hrs	\$ 27,710	70 hrs	\$ 27,710	70 hrs	\$ 27,710
erator AUX training TFA	10	TFA Class D	1x	326.0	9%	296.7	1	312 hrs	\$ 92,558	312 hrs	\$ 92,558	312 hrs	\$ 92,558	312 hrs	\$ 92,558
erator AUX training TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240
erator AUX training TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	70 hrs	\$ 27,710	70 hrs	\$ 27,710	70 hrs	\$ 27,710	70 hrs	\$ 27,710
		-	-	-	-	-	-		\$ -		\$ -		\$ -		\$ -
2.5 Equipment Rental		Base Fee	-	Rate		Estimated Shipping cost	Qty		\$ 497,050		\$ 497,050		\$ 497,050		\$ 497,050
aining Ring Removal Tool Rental				2,200.0		165,000.0	1	42 days	\$ 257,400	42 days	\$ 257,400	42 days	\$ 257,400	42 days	\$ 257,400
uction Heating Tool Rental				6,100.0		3,300.0	1	6 days	\$ 39,900	6 days	\$ 39,900	6 days	\$ 39,900	6 days	\$ 39,900
IS Equipment Rental		5300		1,950.0		8,250.0	1	72 days	\$ 153,950	72 days	\$ 153,950	72 days	\$ 153,950	72 days	\$ 153,950
Camera Rental				610.0			1	42 days	\$ 25,620	42 days	\$ 25,620	42 days	\$ 25,620	42 days	\$ 25,620
w Scan Equipment Rental				120.0			1	19 days	\$ 2,280	19 days	\$ 2,280	19 days	\$ 2,280	19 days	\$ 2,280
nder Toolbox Rental				200.0		1,100.0	2	42 days	\$ 17,900	42 days	\$ 17,900	42 days	\$ 17,900	42 days	\$ 17,900
		-	-	-	-	-	-		\$ -		\$ -		\$ -		\$ -
3 CITATION CONTROLS		-	-	-	-	-	-		\$ 1,316,160		\$ 1,316,160		\$ 1,316,160		\$ 1,316,160
3.1 tallation Support		-	-	-	-	-	-		\$ 396,764		\$ 396,764		\$ 396,764		\$ 396,764
3.1.1 Citation Control System		-	-	-	-	-	-		\$ 354,540		\$ 354,540		\$ 354,540		\$ 354,540
ad Excitation Control TFA	7	TFA Class C	1x	290.0	9%	263.9	1	552 hrs	\$ 145,673	552 hrs	\$ 145,673	552 hrs	\$ 145,673	552 hrs	\$ 145,673
ad Excitation Control TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	1	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667
ad Excitation Control TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	138 hrs	\$ 48,474	138 hrs	\$ 48,474	138 hrs	\$ 48,474	138 hrs	\$ 48,474
ad Excitation Simulator TFA	7	TFA Class C	1x	290.0	9%	263.9	1	384 hrs	\$ 101,338	384 hrs	\$ 101,338	384 hrs	\$ 101,338	384 hrs	\$ 101,338
ad Excitation Simulator TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	1	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667
ad Excitation Simulator TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	96 hrs	\$ 33,721	96 hrs	\$ 33,721	96 hrs	\$ 33,721	96 hrs	\$ 33,721
		-	-	-	-	-	-		\$ -		\$ -		\$ -		\$ -
3.1.2e Specific Training		-	-	-	-	-	-		\$ 42,224		\$ 42,224		\$ 42,224		\$ 42,224
citation Controls TFA	7	TFA Class C	1x	290.0	9%	263.9	2	80 hrs	\$ 42,224	80 hrs	\$ 42,224	80 hrs	\$ 42,224	80 hrs	\$ 42,224
		-	-	-	-	-	-		\$ -		\$ -		\$ -		\$ -
3.2 Static Commissioning Support		-	-	-	-	-	-		\$ 919,397		\$ 919,397		\$ 919,397		\$ 919,397
3.2.1 Citation Controls		-	-	-	-	-	-		\$ 848,198		\$ 848,198		\$ 848,198		\$ 848,198
in Static Commissioning TFA	10	TFA Class D	1x	326.0	9%	296.7	1	640 hrs	\$ 189,862	640 hrs	\$ 189,862	640 hrs	\$ 189,862	640 hrs	\$ 189,862
in Static Commissioning TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479
in Static Commissioning TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	160 hrs	\$ 63,336	160 hrs	\$ 63,336	160 hrs	\$ 63,336	160 hrs	\$ 63,336

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Reversible Work Target Cost (Unescalated)

Worksheet 12

WBS / SOW	Resources							Unit 2		Unit 1		Unit 3		Unit 4	
	Ref	Class	Normal / Overtime	Base Rate	Discount	Adjust. Rate	Numbers of TFA	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs
2 Static Commissioning Specialist	10	TFA Class D	1x	326.0	9%	296.7	1	568 hrs	\$ 168,503	568 hrs	\$ 168,503	568 hrs	\$ 168,503	568 hrs	\$ 168,503
2 Static Commissioning Specialist Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479
2 Static Commissioning Specialist	11	TFA Class D	1.5x	435.0	9%	395.9	1	142 hrs	\$ 56,211	142 hrs	\$ 56,211	142 hrs	\$ 56,211	142 hrs	\$ 56,211
Excitation Controls Commissioning TFA	10	TFA Class D	1x	326.0	9%	296.7	1	720 hrs	\$ 213,595	720 hrs	\$ 213,595	720 hrs	\$ 213,595	720 hrs	\$ 213,595
Excitation Controls Commissioning TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479
Excitation Controls Commissioning TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	180 hrs	\$ 71,253	180 hrs	\$ 71,253	180 hrs	\$ 71,253	180 hrs	\$ 71,253
			-	-	-	-			\$ -		\$ -		\$ -		\$ -
3.2.1e Specific Training			-	-	-	-			\$ 71,198		\$ 71,198		\$ 71,198		\$ 71,198
Excitation Controls Commissioning TFA's	10	TFA Class D	1x	326.0	9%	296.7	3	80 hrs	\$ 71,198	80 hrs	\$ 71,198	80 hrs	\$ 71,198	80 hrs	\$ 71,198
			-	-	-	-			\$ -		\$ -		\$ -		\$ -
4 IRBINE CONTROLS			-	-	-	-			\$ 3,060,789		\$ 3,060,789		\$ 3,060,789		\$ 3,060,789
4.1 Installation Support			-	-	-	-			\$ 535,065		\$ 535,065		\$ 535,065		\$ 535,065
4.1.1 Irbine Controls General			-	-	-	-			\$ 446,322		\$ 446,322		\$ 446,322		\$ 446,322
Excitation Turbine Control TFA	13	TFA Class E	1x	349.0	9%	317.6	1	320 hrs	\$ 101,629	320 hrs	\$ 101,629	320 hrs	\$ 101,629	320 hrs	\$ 101,629
Excitation Turbine Control TFA Travel Time	13	TFA Class E	1x	349.0	9%	317.6	1	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244	48 hrs	\$ 15,244
Excitation Turbine Control TFA	14	TFA Class E	1.5x	467.0	9%	425.0	1	80 hrs	\$ 33,998	80 hrs	\$ 33,998	80 hrs	\$ 33,998	80 hrs	\$ 33,998
Excitation Turbine Control TFA	7	TFA Class C	1x	290.0	9%	263.9	1	240 hrs	\$ 63,336	240 hrs	\$ 63,336	240 hrs	\$ 63,336	240 hrs	\$ 63,336
Excitation Turbine Control TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	1	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667
Excitation Turbine Control TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	60 hrs	\$ 21,076	60 hrs	\$ 21,076	60 hrs	\$ 21,076	60 hrs	\$ 21,076
Excitation Turbine Control TFA	7	TFA Class C	1x	290.0	9%	263.9	1	528 hrs	\$ 139,339	528 hrs	\$ 139,339	528 hrs	\$ 139,339	528 hrs	\$ 139,339
Excitation Turbine Control TFA Travel Time	7	TFA Class C	1x	290.0	9%	263.9	1	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667	48 hrs	\$ 12,667
Excitation Turbine Control TFA	8	TFA Class C	1.5x	386.0	9%	351.3	1	132 hrs	\$ 46,366	132 hrs	\$ 46,366	132 hrs	\$ 46,366	132 hrs	\$ 46,366
			-	-	-	-			\$ -		\$ -		\$ -		\$ -
4.1.2e Specific Training			-	-	-	-			\$ 88,743		\$ 88,743		\$ 88,743		\$ 88,743
Excitation Turbine Control TFA	13	TFA Class E	1x	349.0	9%	317.6	1	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407
Excitation Turbine Control TFA	7	TFA Class C	1x	290.0	9%	263.9	2	80 hrs	\$ 42,224	80 hrs	\$ 42,224	80 hrs	\$ 42,224	80 hrs	\$ 42,224
Excitation Turbine Control TFA	7	TFA Class C	1x	290.0	9%	263.9	1	80 hrs	\$ 21,112	80 hrs	\$ 21,112	80 hrs	\$ 21,112	80 hrs	\$ 21,112
			-	-	-	-			\$ -		\$ -		\$ -		\$ -
4.2 Static Commissioning Support			-	-	-	-			\$ 2,525,723		\$ 2,525,723		\$ 2,525,723		\$ 2,525,723
4.2.1 Irbine Controls			-	-	-	-			\$ 2,357,919		\$ 2,357,919		\$ 2,357,919		\$ 2,357,919
Excitation TFA	10	TFA Class D	1x	326.0	9%	296.7	1	1,736 hrs	\$ 515,002	1,736 hrs	\$ 515,002	1,736 hrs	\$ 515,002	1,736 hrs	\$ 515,002
Excitation TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	192 hrs	\$ 56,959	192 hrs	\$ 56,959	192 hrs	\$ 56,959	192 hrs	\$ 56,959
Excitation TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	434 hrs	\$ 171,799	434 hrs	\$ 171,799	434 hrs	\$ 171,799	434 hrs	\$ 171,799
Excitation TFA	10	TFA Class D	1x	326.0	9%	296.7	1	1,736 hrs	\$ 515,002	1,736 hrs	\$ 515,002	1,736 hrs	\$ 515,002	1,736 hrs	\$ 515,002
Excitation TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	192 hrs	\$ 56,959	192 hrs	\$ 56,959	192 hrs	\$ 56,959	192 hrs	\$ 56,959
Excitation TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	434 hrs	\$ 171,799	434 hrs	\$ 171,799	434 hrs	\$ 171,799	434 hrs	\$ 171,799
Excitation TFA	13	TFA Class E	1x	349.0	9%	317.6	1	1,136 hrs	\$ 360,782	1,136 hrs	\$ 360,782	1,136 hrs	\$ 360,782	1,136 hrs	\$ 360,782
Excitation TFA Travel Time	13	TFA Class E	1x	349.0	9%	317.6	1	96 hrs	\$ 30,489	96 hrs	\$ 30,489	96 hrs	\$ 30,489	96 hrs	\$ 30,489
Excitation TFA	14	TFA Class E	1.5x	467.0	9%	425.0	1	284 hrs	\$ 120,691	284 hrs	\$ 120,691	284 hrs	\$ 120,691	284 hrs	\$ 120,691
Excitation TFA	10	TFA Class D	1x	326.0	9%	296.7	1	720 hrs	\$ 213,595	720 hrs	\$ 213,595	720 hrs	\$ 213,595	720 hrs	\$ 213,595

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Reimbursable Work Target Cost (Unescalated)

Worlet 12

WBS / SOW	Resources							Unit 2		Unit 1		Unit 3		Unit 4	
	Ref	Class	Normal / Overtime	Base Rate	Discount	Adjust. Rate	Numbers of TFA	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs	Hrs Per TFA	Total Costs
raulic TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479	96 hrs	\$ 28,479
raulic TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	180 hrs	\$ 71,253	180 hrs	\$ 71,253	180 hrs	\$ 71,253	180 hrs	\$ 71,253
tdown TFA	10	TFA Class D	1x	326.0	9%	296.7	1	40 hrs	\$ 11,866	40 hrs	\$ 11,866	40 hrs	\$ 11,866	40 hrs	\$ 11,866
tdown TFA Travel Time	10	TFA Class D	1x	326.0	9%	296.7	1	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240	48 hrs	\$ 14,240
tdown TFA	11	TFA Class D	1.5x	435.0	9%	395.9	1	28 hrs	\$ 11,084	28 hrs	\$ 11,084	28 hrs	\$ 11,084	28 hrs	\$ 11,084
tdown TFA	12	TFA Class D	2x	544.0	9%	495.0	1	16 hrs	\$ 7,921	16 hrs	\$ 7,921	16 hrs	\$ 7,921	16 hrs	\$ 7,921
4.2.2 : Specific Training		-	-	-					\$ 167,804		\$ 167,804		\$ 167,804		\$ 167,804
ic Commissioning TFA's	10	TFA Class D	1x	326.0	9%	296.7	6	80 hrs	\$ 142,397	80 hrs	\$ 142,397	80 hrs	\$ 142,397	80 hrs	\$ 142,397
Engineer	13	TFA Class E	1x	349.0	9%	317.6	1	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407	80 hrs	\$ 25,407
		-	-	-					\$ -		\$ -		\$ -		\$ -
		-	-	-											

1	Installation Support			\$ 4,560,314		\$ 4,560,314		\$ 4,400,549		\$ 4,400,549
2	ic Commissioning Support			\$ 3,445,120		\$ 3,445,120		\$ 3,445,120		\$ 3,445,120
3	amic Commissioning Support			\$ 3,893,168		\$ 3,893,168		\$ 3,893,168		\$ 3,893,168
4	otomer Training			\$ 767,485		\$ 767,485		\$ 767,485		\$ 767,485

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Worksheet 13 Labour Schedule

Ref.	Union	Job Title	Effective Date		Normal Time / Overtime Multiplier	Total Rate Chargeable
		Classification	Start [date]	Finish [date]		
1	Non-Trade	TFA Class A	1-Jan-13	31-Dec-13	1	\$ 249.00 / hr
2	Non-Trade	TFA Class A	1-Jan-13	31-Dec-13	1.5	\$ 331.00 / hr
3	Non-Trade	TFA Class A	1-Jan-13	31-Dec-13	2	\$ 412.00 / hr
4	Non-Trade	TFA Class B	1-Jan-13	31-Dec-13	1	\$ 260.00 / hr
5	Non-Trade	TFA Class B	1-Jan-13	31-Dec-13	1.5	\$ 344.00 / hr
6	Non-Trade	TFA Class B	1-Jan-13	31-Dec-13	2	\$ 429.00 / hr
7	Non-Trade	TFA Class C	1-Jan-13	31-Dec-13	1	\$ 290.00 / hr
8	Non-Trade	TFA Class C	1-Jan-13	31-Dec-13	1.5	\$ 386.00 / hr
9	Non-Trade	TFA Class C	1-Jan-13	31-Dec-13	2	\$ 482.00 / hr
10	Non-Trade	TFA Class D	1-Jan-13	31-Dec-13	1	\$ 326.00 / hr
11	Non-Trade	TFA Class D	1-Jan-13	31-Dec-13	1.5	\$ 435.00 / hr
12	Non-Trade	TFA Class D	1-Jan-13	31-Dec-13	2	\$ 544.00 / hr
13	Non-Trade	TFA Class E	1-Jan-13	31-Dec-13	1	\$ 349.00 / hr
14	Non-Trade	TFA Class E	1-Jan-13	31-Dec-13	1.5	\$ 467.00 / hr
15	Non-Trade	TFA Class E	1-Jan-13	31-Dec-13	2	\$ 583.00 / hr
16	Non-Trade	ERTS HOURS	1-Jan-13	31-Dec-13	1	\$ 320.00 / hr
17	Non-Trade	TFA Class D Nightshift	1-Jan-13	31-Dec-13	1	\$ 374.90 / hr
18	Non-Trade	TFA Class D Nightshift	1-Jan-13	31-Dec-13	1.5	\$ 500.25 / hr
19	Non-Trade	TFA Class D Nightshift	1-Jan-13	31-Dec-13	2	\$ 625.60 / hr

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Worksheet 14 Tech Support Rate Sheet



ALSTOM Power and Transport Canada Inc.
2012

OPG Service Technical Field Advisors (TFA) Rates (Rev 1.01/01/2013)

Field Services are offered in five categories for technical advice during installation, inspection, investigation, testing, overhaul and maintenance, of equipment installed within OPG Generating Stations.

Rate Schedule				
Class	Description	Straight Time(3 **)	Overtime (4 ***)	Overtime (5 ****)
A	Specialized Hands-on support services: Turbine Bladers, Generator Winders, Machinists, etc.	\$349.00/hr	\$551.00/hr	\$412.00/hr
B	Advisors, Site Managers and Technicians, with a high level of experience and training	\$260.00/hr	\$344.00/hr	\$229.00/hr
C	Lead or Specialized Advisors and Technicians	\$290.00/hr	\$386.00/hr	\$452.00/hr
D	Senior Technical Advisors, Site Engineers for administering of O & M contracts, mechanical and electrical I & C.	\$326.00/hr	\$433.00/hr	\$544.00/hr
E	Factory based Engineers for Performance Evaluation, Engineering Evaluation, Condition Assessment	\$349.00/hr	\$467.00/hr	\$583.00/hr

Notes:

1. a) All rates are quoted in Canadian Dollars and apply for Canadian personnel. Applicable rate classifications for personnel based outside Canada will be confirmed prior to commencement of work.
- b) All rates are based on a Minimum 60-hour work week (10 hours per day).
- c) All rates are subject to a Minimum Billing requirement of 10 hours per day, for any hours worked or traveled, if less than actual 10 hours.
- d) Unique or regular evening and night shift arrangement for shift work will be subject to a premium (30%), and will be negotiated in accordance with applicable labour laws prior to a contract commences.
- e) TRAVEL: as specified below; and
- f) RENTAL: as specified below (if any)
2. "Assignment Preparation or pre-shutdown scheduling and Demobilization" will be charged per actual hours worked. Special report preparation requirements will be subject to negotiated additional hourly charges.
3. "Straight Time" (i) for first 8 hours worked, Monday to Friday; (ii) all hours traveled, which are not subject to Double time if worked as an ALSTOM Power recognized Holiday; and (iii) OPG's recognized Holidays whether worked or not, and which are not subject to Double Time if worked as an ALSTOM Power recognized Holiday.
4. "Overtime" hours worked in excess of an 8-hour workday, Monday to Friday, and hours worked Saturday, up to 5 hours.
5. "Overtime" hours (i) worked on Saturday beyond 8 hours; (ii) worked on Sundays; and (iii) worked or traveled on ALSTOM recognized Holidays.
6. "Administrative Time and Expenses" for services provided by non-technical personnel, will be charged at an added cost at the rate of \$133.00 hour or part thereof, plus actual expenses. These charges shall apply to those added requirements imposed requested by OPG, which result in added administrative, accounting, purchasing, clerical etc, burden to ALSTOM Power.

In addition to the above RATE SCHEDULE, travel, living and miscellaneous expenses will be charged as follows:

OFF-SITE ENGINEERING	Individual Engineering Hours charged at \$320.00 per hour Block of 100 Engineering Hours charged at \$25,670.00 per block of 100 hours requested
LODGING-EXPENSES	Calculated from day of departure through day of return. Proof of lodging expense will be provided (copy of lodging invoice) and anytime during the assignment that such expense changes. Lodging expense is the sum of the room cost plus applicable taxes not recovered by Contractor under the Excise Tax Act (Canada).
TRAVEL (invoiced directly to OPG)	From point of origin to jobsite and return travel. The travel expenses includes: (i) travel time at the applicable class rate and (ii) travel expenses as follows: (1) Airfare, taxis, limos, tolls, parking at actual cost, plus personal auto transportation; or (2) ALSTOM Power or personal automobile mileage at 55 cents/km, for the most direct route.
RENTAL	ALSTOM Power, quoted rates for instruments, test equipment and special tools from day of shipment to of return, plus shipping costs from point of origin and return.

The above rates do not include HST.

Subject to ALSTOM Power and Transport Canada Inc., Terms and Conditions for Service, in effect on the date the order is received. Rates are subject to change without notice.

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ALSTOM

2013 Equipment Rental Rates

Alstom rates do not include any Federal, Provincial or local property, license, privilege, sales, service, use, excise, gross receipts or other like taxes which may now or hereafter be applicable to, measured by or imposed upon Alstom with respect to Services.

Technical Field Advisors - In accordance with the Rates set forth in the "OPG Service Technical Field Advisors (TFA) Rates" in effect at the time Services are performed.

Tools & Equipment	Rental Price Per Day	Base Fee
SCC NDT Equipment	\$665.00	\$7,400.00
Retaining Ring Removal Tool	\$2,200.00	-
Induction Heating Tool	\$6,100.00	-
DIRIS Equipment	\$1,950.00	\$5,300.00
PD Camera	\$610.00	-
Flow Scan Equipment	\$120.00	-
Winder Toolbox	\$200.00	-

1. "Exclusions" Rates do not include Operators who shall be invoiced in accordance with the applicable "OPG Service Technical Field Advisors (TFA) Rates" rates plus transportation and living expenses as set forth in "OPG Service Technical Field Advisors (TFA) Rates" in effect at the time the Services are performed.

2. "Minimum Billing" Rental period starts from the day of dispatch from Alstom to day of return.

3. "Base Fee" Are charges required to prepare equipment for shipment and exclude transportation costs and are charged on shipment to Customer and on receipt, at Alstom shipping point, from Customer.

4. "Support Services" Are charged as required for home office assistance to support unique or unusual problems or requirements necessary to allow proper operation of Tools and Equipment.

5. "Tool and Equipment Transportation" Invoiced at Alstom's cost plus a mark-up of 10% to cover overheads.

6. "Unloading/Loading" Customer shall provide unloading of Alstom's carrier and loading onto carrier at Customer's site or designated service location at no charge or expense to Alstom.

7. "Site Utilities/Support" Customer shall furnish electricity, water and other utility services, including connection of those services to Alstom's Tools and Equipment and craft labor, as Alstom may require, to allow operation of the Tools and Equipment.

8. "Replacement/Restocking Cost" Rental Equipment & any contents of such equipment not returned complete will be replaced at the Customer's expense. The charge to the Customer will be the replacement cost plus a 15% restocking fee. In no event shall any such charge for the missing item exceed the Alstom replacement cost.

The rates contained herein are effective 1/1/2013. Rates are subject to change without notice.

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Worksheet 15 LOC Estimate Details

Reimbursable Cost with no mark-up	CAT Ref.	Article	Description	U2	U1	U3	U4
Letters of Credit	8.14	4.1 (a)	Cost of Interim Project LC, the Project LC and the Warranty LC				
		4.1 (a)	Provision and Maintenance of the Interim Project LC				
			Contract Price (\$)	\$ 102,168	\$ 59,277	\$ 111,160	\$ 79,513
			Interim Project LC Amount (% of Contract Price)	6%	6%	6%	6%
			Interim Project LC Amount (\$)	\$ 6,130.05	\$ 3,556.62	\$ 6,669.59	\$ 4,770.80
			Estimated Cost of Interim LC (%/year)	0.60%	0.60%	0.60%	0.60%
			Reimbursable Cost per Month (\$)	\$ 3.07	\$ 1.78	\$ 3.33	\$ 2.39
			Estimated Duration (Months)	60	60	60	60
			Estimated Total Cost of the Interim Project LC	\$ 183.90	\$ 106.70	\$ 200.09	\$ 143.12
		4.1 (a)	Provision and Maintenance of the Project LC				
			Contract Price (\$)	\$ 102,167.52	\$ 59,277.01	\$ 111,159.80	\$ 79,513.26
			Project LC Amount (% of Contract Price)	10%	10%	10%	10%
			Project LC Amount (\$)	\$ 10,216.75	\$ 5,927.70	\$ 11,115.98	\$ 7,951.33
			Estimated Cost of Project LC (%/year)	0.85%	0.85%	0.85%	0.85%
			Reimbursable Cost per Month (\$)	\$ 7.24	\$ 4.20	\$ 7.87	\$ 5.63
			Estimated Duration (Months)	96	96	96	96
			Estimated Total Cost of the Project LC	\$ 694.74	\$ 403.08	\$ 755.89	\$ 540.69
		4.1 (a)	Provision and Maintenance of the Warranty LC				
			Contract Price (\$)	\$ 102,167.52	\$ 59,277.01	\$ 111,159.80	\$ 79,513.26
			Warranty LC Amount (% of Contract Price)	2%	2%	2%	2%
			Warranty LC Amount (\$)	\$ 2,043.35	\$ 1,185.54	\$ 2,223.20	\$ 1,590.27
			Estimated Cost of the Warranty LC (%/year)	1.00%	1.00%	1.00%	1.00%
			Reimbursable Cost per Month (\$)	\$ 1.70	\$ 0.99	\$ 1.85	\$ 1.33
			Estimated Duration (Months)	48	48	48	48
			Estimated Total Cost of Warranty LC	\$ 81.73	\$ 47.42	\$ 88.93	\$ 63.61
RST on Health/Welfare Benefits			RST on Health/Welfare Benefits - applies to Trades only				
Other Reimbursable Costs with no mark-up (Proponent to insert additional line items if required)							
The estimated total Reimbursable Costs with no mark up are:				\$ 960.37	\$ 557.20	\$ 1,044.90	\$ 747.42

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

Back to Base Scope Summary		Worksheet 16 TFA Reference U1&2		
SoW Package	SoW Doc #	SoW Reference	Description	Resource
Turbine & Aux	NK38-SOW-41000-10002	2.1.1 (h)	HP Turbine TFA - Disassembly & Reassembly	Technical Field Advisor
		2.1.2		
		2.1.3		
		2.1.4		
		2.3.1 (a)		
		2.5.4.1 (a&b)		
		2.5.4.2 (a&b)		
		2.5.4.4 (a)		
		2.5.4.5 (a&b)		
		2.5.5.2 (a&b)		
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 (a)	LP Turbine TFA - Disassembly	Technical Field Advisor
		2.2.2		
		2.2.3		
		2.2.4		
		2.3.1 (a)		
		2.5.4.1 (a&b)		
		2.5.4.2 (a&b)		
		2.5.4.4 (a)		
		2.5.4.5 (a&b)		
		2.5.5.2 (a&b)		
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 (a)	LP Turbine TFA - Reassembly	Technical Field Advisor
		2.2.2		
		2.2.3		
		2.2.4		
		2.3.1 (a)		
		2.5.4.1 (a&b)		
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.2 (a&b)	Steam Turbine Assessment TFA	Engineer
		2.5.4.4 (a)		
		2.5.4.5 (a&b)		
		2.5.5.2 (a&b)		
Turbine & Aux	NK38-SOW-41000-10002	ALL	Trombik - Blocking of Foundation Prior to Removing Heavy Turbine Components	Technical Field Advisor

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Master Pricing Tables

OPG DNGS TG Refurbishment Project

SoW Package	SoW Doc #	SoW Reference	Description	Resource
Turbine & Aux	NK38-SOW-41000-10002	2.2	Trombik - Replacement of Spring Can Pads	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.2	Trombik - Releasing & Readjustment of the Foundation	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.1.4	After all Refurbishment Work and Reassembly Work is Complete	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.2.4	SCC NDT Specialist - HP & LP Rotors	NDT Technician
Turbine & Aux	NK38-SOW-41000-10002	2.1.4	SCC NDT Equipment Rental - HP & LP Rotors	Equipment
Turbine & Aux	NK38-SOW-41000-10002	2.2.4	Steam Turbine TFA Site Specific Training	Equipment
Turbine & Aux	NK38-SOW-41000-10002	2.4.1 (a&b)	Main Steam HP Valves Lead TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.4.3 (a&b&c)	Main Steam LP Valves Lead TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 (a&b)	Extraction Non-Return Valves TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 (a&b&c)		
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 (a&b)		
MSR	NK38-SOW-41800-10001	2.1.2 (a&b)	Check Valves Extraction Steam TFA (Included Above)	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.4	Valve Assessment TFA	Engineer
Turbine & Aux	NK38-SOW-41000-10002	2.5.2	Valve TFA Site Specific Training	Engineer
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic I&C Commissioning TFA - Days	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic I&C Commissioning TFA - Nights	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	I&C Commissioning Documentation TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic Process Commissioning TFA - Days	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic Process Commissioning TFA - Nights	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Process Commissioning Documentation TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic Commissioning Vibration TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Commissioning TFA Site Specific Training	Technical Field Advisor

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SoW Package	SoW Doc #	SoW Reference	Description	Resource
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (a&b)	Generator TFA - Pre Coupling	Technical Field Advisor
		2.1.2 (a&f)		
		2.1.3 (a&b)		
		2.1.4 (a&b)		
		2.1.5 (a&b)		
		2.1.6 (a&b)		
		2.1.7 (a&b)		
		2.1.8		
		2.1.9		
		2.3 (a&b)		
Generator & Aux	NK38-SOW-42000-10002	2.4 (a&b)	Generator TFA - Post Coupling	Technical Field Advisor
		2.1.1 (a&b)		
		2.1.2 (a&f)		
		2.1.3 (a&b)		
		2.1.4 (a&b)		
		2.1.5 (a&b)		
		2.1.6 (a&b)		
		2.1.7 (a&b)		
		2.1.8		
		2.1.9		
Generator & Aux	NK38-SOW-42000-10002	2.3 (a&b)	Generator Rotor Specialists	Technical Field Advisor
		2.4 (a&b)		
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (b)	Retaining Ring Removal Tool Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (b)	Induction Heating Tool Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (a&b)	Generator Stator Winders - Alstom Lead Winders	Stator Winders
		2.1.2 (a&f) - Units 1&2		
		2.1.2 (a) - Unit 3		
		2.1.2 (b) - Unit 4		
		2.1.5 (a&b)		

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SoW Package	SoW Doc #	SoW Reference	Description	Resource
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (a&b)	Generator Stator Winders - Local Winders	Stator Winders
		2.1.2 (a&f) - Units 1&2		
		2.1.2 (a) - Unit 3		
		2.1.2 (b) - Unit 4		
Generator & Aux	NK38-SOW-42000-10002	2.1.5 (a&b)		
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	DIRIS 2 Specialist - Rotor and Prewedge Stator	DIRIS Specialist
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	DIRIS Specialist - Rotor Before and After Retaining Rings Reassembled	DIRIS Specialist
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	DIRIS Specialist - Post Rewedging	DIRIS Specialist
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	DIRIS Equipment Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	PD Camera Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	Flow Scan Equipment Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	Winder Toolbox Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	Generator TFA Site Specific Training	
Generator & Aux	NK38-SOW-42000-10002	2.1.7 (a&b)	Hydrogen Specialist	Technical Field Advisor
		2.1.8		
		2.1.9		
		2.3 (a&b)		
Generator & Aux	NK38-SOW-42000-10002		Hydrogen Specialist Site Specific Training	
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Generator Dynamic Commissioning TFA - Days	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Generator Dynamic Commissioning TFA - Nights	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Generator Commissioning Documentation TFA	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Hydrogen Dynamic Commissioning TFA	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Excitation Dynamic Commissionin TFA - Days	Technical Field Advisor

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Master Pricing Tables
 OPG DNGS TG Refurbishment Project

SoW Package	SoW Doc #	SoW Reference	Description	Resource
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Excitation Dynamic Commissionin TFA - Nights	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Excitation Commissioning Documentation TFA	Technical Field Advisor
		Dynamic	Dynamic Commissioning TFA Site Specific Training	
Turbine Controls Upgrade	NK38-SOW-64100-10003	ALL	Turbine Controls Specialist	Engineer
Turbine Controls Upgrade	NK38-SOW-64100-10003	ALL	Electrical Erection TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	ALL	Hydraulic and Instrumentation Piping TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003		Controls Personnel Site Specific Training	
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	I&C Static Commissioning TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	I&C Static Commissioning TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	Process Static Commissioning TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	Process Static Commissioning TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	Control System Engineer - Static Commissioning	Engineer
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	Hydraulic Controls TFA - Static Commissioning	Technical Field Advisor

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SoW Package	SoW Doc #	SoW Reference	Description	Resource
Turbine Controls Upgrade	NK38-SOW-64100-10003	Shut Down	Commissioning TFA During Shut Down Period	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003		Turbine Static Commissioning TFA Site Specific Training	
Excitation Controls Upgrade	NK38-SOW-64220-10002	ALL	Excitation Controls TFA	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002	2.8	Excitation Controls Simulator TFA	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002		Excitation Controls Personnel Site Specific Training	
Excitation Controls Upgrade	NK38-SOW-64220-10002	Static	Generator Static Commissioning TFA	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002	Static	Hydrogen Static Commissioning Specialist	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002	Static	Excitation Static Commissioning TFA	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002		Excitation Static Commissioning TFA Site Specific Training	

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Back to Base Scope Summary		Worksheet 17 TFA Reference U3&4		
SoW Package	SoW Doc #	SoW Reference	Description	Resource
Turbine & Aux	NK38-SOW-41000-10002	2.1.1 (h)	HP Turbine TFA - Disassembly & Reassembly	Technical Field Advisor
		2.1.2		
		2.1.3		
		2.1.4		
		2.3.1 (a)		
		2.5.4.1 (a&b)		
		2.5.4.2 (a&b)		
		2.5.4.4 (a)		
		2.5.4.5 (a&b)		
		2.5.5.2 (a&b)		
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 (a)	LP Turbine TFA - Disassembly	Technical Field Advisor
		2.2.2		
		2.2.3		
		2.2.4		
		2.3.1 (a)		
		2.5.4.1 (a&b)		
		2.5.4.2 (a&b)		
		2.5.4.4 (a)		
		2.5.4.5 (a&b)		
		2.5.5.2 (a&b)		
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 (a)	LP Turbine TFA - Reassembly	Technical Field Advisor
		2.2.2		
		2.2.3		
		2.2.4		
		2.3.1 (a)		
		2.5.4.1 (a&b)		
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.2 (a&b)	Steam Turbine Assessment TFA	Engineer
		2.5.4.4 (a)		
		2.5.4.5 (a&b)		
		2.5.5.2 (a&b)		
		ALL		

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Master Pricing Tables

OPG DNGS TG Refurbishment Project

SoW Package	SoW Doc #	SoW Reference	Description	Resource
Turbine & Aux	NK38-SOW-41000-10002	2.2	Trombik - Blocking of Foundation Prior to Removing Heavy Turbine Components	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.2	Trombik - Replacement of Spring Can Pads	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.2	Trombik - Releasing & Readjustment of the Foundation After all Refurbishment Work and Reassembly Work is Complete	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.1.4 2.2.4	SCC NDT Specialist - HP & LP Rotors	NDT Technician
Turbine & Aux	NK38-SOW-41000-10002	2.1.4 2.2.4	SCC NDT Equipment Rental - HP & LP Rotors	Equipment
Turbine & Aux	NK38-SOW-41000-10002		Steam Turbine TFA Site Specific Training	
Turbine & Aux	NK38-SOW-41000-10002	2.4.1 (a&b) 2.4.3 (a&b&c)	Main Steam HP Valves Lead TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 (a&b) 2.4.4 (a&b&c)	Main Steam LP Valves Lead TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 (a&b)	Extraction Non-Return Valves TFA	Technical Field Advisor
MSR	NK38-SOW-41800-10001	2.1.2 (a&b)	Check Valves Extraction Steam TFA (Included Above)	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	2.4 2.5.2	Valve Assessment TFA	Engineer
Turbine & Aux	NK38-SOW-41000-10002		Valve TFA Site Specific Training	
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic I&C Commissioning TFA - Days	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic I&C Commissioning TFA - Nights	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	I&C Commissioning Documentation TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic Process Commissioning TFA - Days	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic Process Commissioning TFA - Nights	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Process Commissioning Documentation TFA	Technical Field Advisor
Turbine & Aux	NK38-SOW-41000-10002	Dynamic	Steam Turbine Dynamic Commissioning Vibration TFA	Technical Field Advisor
		Dynamic	Steam Turbine Commissioning TFA Site Specific Training	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SoW Package	SoW Doc #	SoW Reference	Description	Resource
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (a&b)	Generator TFA - Pre Coupling	Technical Field Advisor
		2.1.2 (a&f)		
		2.1.3 (a&b)		
		2.1.4 (a&b)		
		2.1.5 (a&b)		
		2.1.6 (a&b)		
		2.1.7 (a&b)		
		2.1.8		
		2.1.9		
		2.3 (a&b)		
Generator & Aux	NK38-SOW-42000-10002	2.4 (a&b)	Generator TFA - Post Coupling	Technical Field Advisor
		2.1.1 (a&b)		
		2.1.2 (a&f)		
		2.1.3 (a&b)		
		2.1.4 (a&b)		
		2.1.5 (a&b)		
		2.1.6 (a&b)		
		2.1.7 (a&b)		
		2.1.8		
		2.1.9		
Generator & Aux	NK38-SOW-42000-10002	2.3 (a&b)	Generator Rotor Specialists	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	2.4 (a&b)		
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (a&b)	Retaining Ring Removal Tool Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.3 (a&b)		
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (b)	Induction Heating Tool Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (b)		
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (a&b)	Generator Stator Winders - Alstom Lead Winders	Stator Winders
		2.1.2 (a&f) -		
		Units 1&2		
		2.1.2 (a) - Unit 3		
		2.1.2 (b) - Unit 4		
Generator & Aux	NK38-SOW-42000-10002	2.1.5 (a&b)		

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SoW Package	SoW Doc #	SoW Reference	Description	Resource
Generator & Aux	NK38-SOW-42000-10002	2.1.1 (a&b) 2.1.2 (a&f) - Units 1&2 2.1.2 (a) - Unit 3 2.1.2 (b) - Unit 4 2.1.5 (a&b)	Generator Stator Winders - Local Winders	Stator Winders
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	DIRIS 2 Specialist - Rotor and Prewedge Stator	DIRIS Specialist
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	DIRIS Specialist - Rotor Before and After Retaining Rings Reassembled	DIRIS Specialist
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	DIRIS Specialist - Post Rewedging	DIRIS Specialist
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	DIRIS Equipment Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	PD Camera Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	Flow Scan Equipment Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2	Winder Toolbox Rental	Equipment
Generator & Aux	NK38-SOW-42000-10002	2.1.2 (b&c) - Units 1&2 2.1.7 (a&b)	Generator TFA Site Specific Training	
Generator & Aux	NK38-SOW-42000-10002	2.1.8 2.1.9 2.3 (a&b)	Hydrogen Specialist	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002		Hydrogen Specialist Site Specific Training	
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Generator Dynamic Commissioning TFA - Days	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Generator Dynamic Commissioning TFA - Nights	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Generator Commissioning Documentation TFA	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Hydrogen Dynamic Commissioning TFA	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Excitation Dynamic Commissionin TFA - Days	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Excitation Dynamic Commissionin TFA - Nights	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Excitation Commissioning Documentation TFA	Technical Field Advisor
Generator & Aux	NK38-SOW-42000-10002	Dynamic	Dynamic Commissioning TFA Site Specific Training	

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Master Pricing Tables
 OPG DNGS TG Refurbishment Project

SoW Package	SoW Doc #	SoW Reference	Description	Resource
Turbine Controls Upgrade	NK38-SOW-64100-10003	ALL	Turbine Controls Specialist	Engineer
Turbine Controls Upgrade	NK38-SOW-64100-10003	ALL	Electrical Erection TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	ALL	Hydraulic and Instrumentation Piping TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003		Controls Personnel Site Specific Training	
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	I&C Static Commissioning TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	I&C Static Commissioning TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	Process Static Commissioning TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	Process Static Commissioning TFA	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	Control System Engineer - Static Commissioning	Engineer
Turbine Controls Upgrade	NK38-SOW-64100-10003	Static	Hydraulic Controls TFA - Static Commissioning	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003	Shut Down	Commissioning TFA During Shut Down Period	Technical Field Advisor
Turbine Controls Upgrade	NK38-SOW-64100-10003		Turbine Static Commissioning TFA Site Specific Training	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SoW Package	SoW Doc #	SoW Reference	Description	Resource
Excitation Controls Upgrade	NK38-SOW-64220-10002	ALL	Excitation Controls TFA	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002	2.8	Excitation Controls Simulator TFA	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002		Excitation Controls Personnel Site Specific Training	
Excitation Controls Upgrade	NK38-SOW-64220-10002	Static	Generator Static Commissioning TFA	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002	Static	Hydrogen Static Commissioning Specialist	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002	Static	Excitation Static Commissioning TFA	Technical Field Advisor
Excitation Controls Upgrade	NK38-SOW-64220-10002		Excitation Static Commissioning TFA Site Specific Training	



ATTACHMENT 7.1(c)

Schedule 7.1 – Contract Price

Attachment 7.1 (c)

Milestone Payment Schedule

The aggregate cost of the Design Engineering Completion milestone, the FAT Completion milestone, and the Unit Goods Delivered Completion milestone for each unit is set out in the attached Worksheet 18 –Table of Aggregate Costs, stated in thousands of Canadian dollars.

Milestone Payment Schedule

Prices in the following Worksheet 19-Supply Payment Milestones are stated in thousands of Canadian dollars.

The Worksheet 19-Supply Payment Milestones applies to Fixed Price Work and Firm Price Work.

The Worksheet 20—Invoicing Summary provides also Hedging cost flow stated in thousands of Canadian dollars.

Fixed Price Work packages and Firm Price Work packages are referenced in the appropriate work sheets in Schedule 7.1, Attachment 7.1(a) and Schedule 7.1, Attachment 7.1 (d).



Worksheet 18 - Table of Aggregate Costs

Milestone	Work Allocation								Total	
	FSMS (SFSMS)	Unit 2 1st Outage	Unit 3 (Former Unit 2, Deferred scope)	Unit 3 (except Stator and Rewind kit)	Unit 3 Stator and Rewind Kit	Unit 1	Unit 2 2nd Outage (Refurbishment scope)	Unit 4	56,221	
Design Engineering	n/a	4,706 Passed Milestone, split per scope	11,745 Passed Milestone, split per scope	5,291 24 percent of unit 3 scope (which	9,780 24 percent of stator and rewind kit	7,932 24 percent of unit 1	4,933 24 percent of unit 2 second outage	11,834 24 percent of unit 4	21,605	23.7%
FAT (Turbine + Exc Controls only)	1,916 25 percent of Simulator (SFSMS) price	n/a	6,779 25 percent of controls	n/a	n/a	3,886 25% of control scope only	5,139 25% of control scope only	3,886 25% of control scope only	159,261	9.1%
Unit Goods Delivered	5,749 75 percent of Simulator (SFSMS) price	15,756 non defered scope	24,726 Remainder of deferred scope	16,753 76% of unit 3 scope (which was not reallocated from unit 2)	30,970 76 percent of stator and rewind kit only	21,233 remaining unit 1 value	10,483 remaining unit 2 value	33,590 remaining unit 4 value	237,086	67.2%
Unit Goods Delivered (CD #18 Additional outage spares) TSSM	n/a	76,349	TBD	TBD	n/a	TBD	TBD	TBD		
Unit Goods Delivered (CD # 20 Limited Shelf life Materials) TSEM	n/a	41,953	TBD	TBD	n/a	TBD	TBD	TBD		
Aggregate Cost on a Work Allocation Basis	125,967	20,462	43,250	22,044	40,749	33,051	20,554	49,310		

n/a - in the above table indicates that no Schedule Disincentives are applicable to a particular milestone.

Table of Aggregate Costs for Contract Schedule Activities - Schedule Disincentive Purposes under Section 8.2 of Agreement

TBD - To be determined

[Handwritten signature]

Worksheet 19 - Supply Payment Milestones

Worksheet 19 - Supply Payment Milestones										CD#018 Additional Outage Spare Pa Mar 21 ,2016				CD#019 SFSMS Layout/Configuration Change and CD#20 Limited shelf life materials Mar 28 ,2016															
Subtotal										12,481.79	50,349.06	130,730.703	225,739.51	12,481.79	50,355.91	130,759.134	225,787.86					76.35							
Var. [n-(n-1)]										20.61				6.85				28.43				48.349							
ECA Index																													
Exchange Rate																													
No.	OPG Units (old)	OPG Units (Revised)	Fixed or Firm	Alstom Units	Scope	Sub-Scope	P6 ID	Work Package Number	Revised Payment Milestones Description	US Payment (KUSD)	CA Portion (KCAD)	EU Portion (In KEuro)	CAD Payment (KCAD)	US Payment (KUSD)	CA Portion (KCAD)	EU Portion (In KEuro)	CAD Payment (KCAD)	Invoice Date As sold	Invoice Date (N-1)	Invoice Date (N)	Payment Date	Var.Amt n-(n-1)	Var. Days n-(n-1)	Status					
1	U2	U2	Fixed	TSSM	TC	WP I,II & III			U2 TC Contract Award/Release of Unit(TSSM)	-	159.272	1,366.650	2,007.345	-	159.272	1,366.650	2,007.345	2-Apr-13	2-Apr-13	2-Apr-13	25-May-13	-		Paid					
2	U2	U2	Fixed	TSSM	TC	WP I,II & III			U2 TC Completion of Preliminary Engineering(TSSM)	-	159.272	1,366.650	1,972.810	-	159.272	1,366.650	1,972.810	24-Oct-13	24-Oct-13	24-Oct-13	25-Nov-13	-		Paid					
3	U2	U2	Fixed	TSSM	TC	WP I,II & III			U2 TC Completion of 50% Design Engineering(TSSM)	-	159.272	1,366.650	1,990.077	-	159.272	1,366.650	1,990.077	20-Mar-14	20-Mar-14	20-Mar-14	25-Apr-14	-		Paid					
4	U2	U2	Fixed	TSSM	TC	WP I,II & III			U2 TC Completion of Design Engineering(TSSM)	-	159.272	1,366.650	1,990.077	-	159.272	1,366.650	1,990.077	10-Nov-14	20-Feb-15	20-Feb-15	25-Mar-15	-		Paid					
5	U2	U3	Fixed	TSSM	TC	WP III	U3-PM-04	40601	U3 Fixed TC Completion of Material Procurement(TSSM)	-	35.980	175.293	273.369	-	35.980	175.293	273.369	20-Feb-15	18-Sep-15	8-Oct-15	25-Nov-15	-	20	Paid					
6	U2	U3	Fixed	TSSM	TC	WP III	U3-PM-05	40702	U3 Fixed TC Completion of FAT Procedures(TSSM)	-	35.980	175.293	273.369	-	35.980	175.293	273.369	20-Feb-15	13-Oct-15	31-Aug-15	25-Oct-15	-	-43	Paid					
7	U2	U3	Fixed	TSSM	TC	WP III	U3-PM-06	40702	U3 Fixed TC Completion of FAT Testing(TSSM)	-	35.980	175.293	273.369	-	35.980	175.293	273.369	30-Jul-15	4-Mar-16	4-Mar-16	25-Apr-16	-		Invoiced					
8	U2	U3	Fixed	TSSM	TC	WP III	U3-PM-07	40702	U3 Fixed TC Unit Material Staged/Delivered(TSSM) to storage	-	23.206	117.246	181.544	-	23.206	117.246	181.544	29-Jun-16	29-Jun-16	16-Mar-16	25-Apr-16	-	-105	Invoiced					
9	U2	U3	Fixed	TSSM	TC	WP III	U3-PM-08	40801	U3 Fixed TC Unit Material Staged/Delivered(TSSM) to Site	-	12.775	58.046	91.826	-	12.775	58.046	91.826		3-Jul-19	3-Jul-19	25-Aug-19	-							
10	U2	U2	Fixed	PAC	TC				U2 TC Contract Award/Release of Unit(PAC)	-	243.294	1,247.700	1,930.515	-	243.294	1,247.700	1,930.515	2-Apr-13	2-Apr-13	2-Apr-13	25-May-13	-		Paid					
11	U2	U2	Fixed	PAC	TC				U2 TC Completion of Preliminary Engineering(PAC)	-	243.294	1,247.700	1,898.986	-	243.294	1,247.700	1,898.986	20-Feb-14	20-Feb-14	20-Feb-14	25-Mar-14	-		Paid					
12	U2	U2	Fixed	PAC	TC				U2 TC Completion of 50% Design Engineering(PAC)	-	243.294	1,247.700	1,914.750	-	243.294	1,247.700	1,914.750	3-Jul-14	26-Jun-14	26-Jun-14	25-Aug-14	-		Paid					
13	U2	U2	Fixed	PAC	TC				U2 TC Completion of Design Engineering(PAC)	-	243.294	1,247.700	1,914.750	-	243.294	1,247.700	1,914.750	3-Dec-14	10-Feb-15	10-Feb-15	25-Mar-15	-		Paid					
14	U2	U3	Fixed	PAC	TC		U3-PM-300	40602	U3 Fixed TC Completion of Material Procurement(PAC)	-	240.482	1,319.428	2,018.867	-	240.482	1,319.428	2,018.867	8-Dec-14	20-May-15	20-May-15	25-Jun-15	-		Paid					
15	U2	U3	Fixed	PAC	TC		U3-PM-310	40704	U3 Fixed TC Completion of FAT Procedures(PAC)	-	250.996	1,350.300	2,071.424	-	250.996	1,350.300	2,071.424	19-Aug-15	11-Sep-15	20-Nov-15	25-Dec-15	-	70	Paid					
16	U2	U3	Fixed	PAC	TC		U3-PM-320	40704	U3 Fixed TC Completion of FAT Testing(PAC)	-	250.996	1,350.300	2,071.424	-	250.996	1,350.300	2,071.424	16-Mar-16	2-Sep-16	20-Jan-17	25-Feb-17	-	140						
17	U2	U3	Fixed	PAC	TC		U3-PM-330	40704	U3 Fixed TC Unit Material Staged/Delivered(PAC) to Storage	-	206.596	1,091.050	1,673.962	-	206.596	1,091.050	1,673.962	15-Jul-16	11-Oct-16	6-Mar-17	25-Apr-17	-	146						
18	U2	U3	Fixed	PAC	TC		U3-PM-340	40802	U3 Fixed TC Unit Material Delivered(PAC) to Site	-	44.400	259.250	397.462	-	44.400	259.250	397.462		10-Jul-19	21-Jun-19	25-Aug-19	-	-19						
19	U2	U2	Fixed	PAC	EC				U2 EC Contract Award/Release of Unit(PAC)	-	255.096	1,238.850	1,930.350	-	255.096	1,238.850	1,930.350	2-Apr-13	2-Apr-13	2-Apr-13	25-May-13	-		Paid					
20	U2	U2	Fixed	PAC	EC				U2 EC Completion of Preliminary Engineering(PAC)	-	255.096	1,238.850	1,899.044	-	255.096	1,238.850	1,899.044	30-Apr-14	1-May-14	1-May-14	25-Jun-14	-		Paid					
21	U2	U2	Fixed	PAC	EC				U2 EC Completion of 50% Design Engineering(PAC)	-	255.096	1,238.850	1,914.697	-	255.096	1,238.850	1,914.697	1-Aug-14	6-Aug-14	6-Aug-14	25-Sep-14	-		Paid					
22	U2	U2	Fixed	PAC	EC				U2 EC Completion of Design Engineering(PAC)	-	255.096	1,307.877	1,914.697	-	255.096	1,307.877	1,914.697	7-Jan-15	19-Feb-15	19-Feb-15	25-Mar-15	-		Paid					
23	U2	U3	Fixed	PAC	EC		U3-PM-200	40603	U3 Fixed EC Completion of Material Procurement(PAC)	-	285.677	1,406.404	2,166.976	-	285.677	1,406.404	2,166.976	24-Apr-15	16-Oct-15	4-Dec-15	25-Jan-16	-	49	Paid					
24	U2	U3	Fixed	PAC	EC		U3-PM-210	40706	U3 Fixed EC Completion of FAT Procedures(PAC)	-	285.677	1,394.900	2,166.976	-	285.677	1,394.900	2,166.976	3-Nov-14	31-Aug-15	20-Nov-15	25-Dec-15	-	81	Paid					
25	U2	U3	Fixed	PAC	EC		U3-PM-220	40706	U3 Fixed EC Completion of FAT Testing(PAC)	-	285.677	1,394.900	2,166.976	-	285.677	1,394.900	2,166.976	22-Dec-15	6-Sep-16	4-Apr-17	25-May-17	-	210						
26	U2	U3	Fixed	PAC	EC		U3-PM-230	40706	U3 Fixed EC Unit Material Staged/Delivered(PAC) to Storage	-	227.871	1,110.400	1,721.720	-	227.871	1,110.400	1,721.720	14-Jun-16	24-Aug-16	17-Apr-17	25-May-17	-	236						
27	U2	U3	Fixed	PAC	EC		U3-PM-240	40803	U3 Fixed EC Unit Material (PAC) to Site	-	57.806	284.500	445.256	-	57.806	284.500	445.256		16-Jul-19	16-Jul-19	25-Aug-19	-							
28	U2	U2	Fixed	TSSM	ST				U2 ST Contract Award/Release of Unit(TSSM)	-	566.752	993.900	1,910.565	-	566.752	993.900	1,910.565	2-Apr-13	2-Apr-13	2-Apr-13	25-May-13	-		Paid					
29	U2	U2	Fixed	TSSM	ST				U2 ST Completion of Preliminary Engineering(TSSM)	-	377.835	662.600	1,252.783	-	377.835	662.600	1,252.783	27-Jul-13	24-Jul-13	24-Jul-13	25-Aug-13	-		Paid					
30	U2	U2	Fixed	TSSM	ST				U2 ST Completion of Design Engineering(TSSM)	-	377.835	662.600	1,265.339	-	377.835	662.600	1,265.339	10-Nov-14	21-Nov-14	21-Nov-14	25-Dec-14	-		Paid					
31	U2	U2	Fixed	TSSM	ST				U2 ST Completion of Material Procurement(TSSM)	-	944.587	1,656.500	3,163.349	-	944.587	1,656.500	3,163.349	10-Apr-15	4-May-15	4-May-15	25-Jun-15	-							

Worksheet 19 - Supply Payment Milestones

Worksheet 19 - Supply Payment Milestones										CD#018 Additional Outage Spare Pa Mar 21 ,2016				CD#019 SFSMS Layout/Configuration Change and CD#20 Limited shelf life materials Mar 28 ,2016										
Subtotal										12,481.79	50,349.06	130,730.703	225,739.51	12,481.79	50,355.91	130,759.134	225,787.86					76.35		
Var. [n-(n-1)]										20.61 38.19 76.349				6.85 28.43 48.349										
ECA Index																								
Exchange Rate																								
No.	OPG Units (old)	OPG Units (Revised)	Fixed or Firm	Alstom Units	Scope	Sub-Scope	P6 ID	Work Package Number	Revised Payment Milestones Description	US Payment (KUSD)	CA Portion (KCAD)	EU Portion (In KEuro)	CAD Payment (KCAD)	US Payment (KUSD)	CA Portion (KCAD)	EU Portion (In KEuro)	CAD Payment (KCAD)	Invoice Date As sold	Invoice Date (N-1)	Invoice Date (N)	Payment Date	Var.Amt n-(n-1)	Var. Days n-(n-1)	Status
73	U3	U3	Firm	TSSM	ST		U3-PM-40	30410/30412	U3 ST Completion of Design Engineering(TSSM)	-	168.808	299.497	569.896	-	168.808	299.497	569.896	22-Feb-19	7-Nov-17	7-Nov-17	25-Dec-17	-	-	
74	U3	U3	Firm	TSSM	ST		U3-PM-50	40612/40613	U3 ST Completion of Material Procurement(TSSM)	-	337.617	598.994	1,139.792	-	337.617	598.994	1,139.792	17-Jul-19	4-Jul-18	4-Jul-18	25-Aug-18	-	-	
75	U3	U3	Firm	TSSM	ST		U3-PM-60	40725/40726	U3 ST Completion of Manufacturing(TSSM)	-	337.617	598.994	1,139.792	-	337.617	598.994	1,139.792	29-Jan-20	23-Apr-19	23-Apr-19	25-May-19	-	-	
76	U3	U3	Firm	TSSM	ST		U3-PM-70	40811/40812	U3 ST Unit Material Staged/Delivered(TSSM)	-	506.425	898.492	1,709.688	-	506.425	898.492	1,709.688	12-Apr-20	16-Jul-19	16-Jul-19	25-Aug-19	-	-	
77	U3	U3	Firm	US	ST				U3 ST Erosion Protection Ring Machining(US)	302.553	674.649	-	674.649	302.553	674.649	-	674.649	28-Oct-20	28-Oct-20	28-Oct-20	25-Dec-20	-	-	
78	U3	U3	Fixed	TSEM	Gen		U3-PM-11	30512	U3 Gen Release of unit(TSEM)_Fixed	-	85.053	414.232	649.179	-	85.053	414.232	649.179	25-Jan-16	10-Sep-15	10-Sep-15	25-Oct-15	-	-	Paid
79	U3	U3	Firm	TSEM	Gen		U3-PM-80	30513	U3 Gen Release of unit(TSEM)	-	713.667	2,289.098	3,779.051	-	713.667	2,289.098	3,779.051	25-Jan-16	10-Sep-15	10-Sep-15	25-Oct-15	-	-	Paid
80	U3	U3	Firm	TSEM	Gen		U3-PM-90	30313/30316	U3 Gen Completion of Preliminary Engineering(TSEM)	-	713.667	2,289.098	3,779.051	-	713.667	2,289.098	3,779.051	21-Mar-16	4-Dec-15	4-Dec-15	25-Jan-16	-	-	Invoiced
81	U3	U3	Firm	TSEM	Gen		U3-PM-100	30413/30414/30420	U3 Gen Completion of 50% Design Engineering(TSEM)	-	713.667	2,289.098	3,779.051	-	713.667	2,289.098	3,779.051	3-Jan-17	20-Sep-16	20-Sep-16	25-Oct-16	-	-	
82	U3	U3	Firm	TSEM	Gen		U3-PM-110	30413/30414/30420	U3 Gen Completion of Design Engineering(TSEM)	-	713.667	2,289.098	3,779.051	-	713.667	2,289.098	3,779.051	19-Oct-17	6-Jul-17	6-Jul-17	25-Aug-17	-	-	
83	U3	U3	Firm	TSEM	Gen		U3-PM-120	40619/40616/40621	U3 Gen Completion of Material Procurement(TSEM)	-	678.788	2,069.262	3,467.704	-	678.788	2,069.262	3,467.704	19-Jul-18	5-Apr-18	5-Apr-18	25-May-18	-	-	
84	U3	U3	Fixed	TSEM	Gen		U3-PM-120	40619	U3 Gen Completion of Material Procurement(TSEM_CD#015)	-	19.961	94.000	164.481	-	19.961	94.000	164.481	19-Jul-18	5-Apr-18	5-Apr-18	25-May-18	-	-	
85	U3	U3	Firm	TSEM	Gen		U3-PM-130	40732/40728/40729	U3 Gen Completion of Manufacturing(TSEM)	-	1,070.501	3,433.647	5,668.576	-	1,070.501	3,433.647	5,668.576	19-Jan-19	6-Oct-18	6-Oct-18	25-Nov-18	-	-	
86	U3	U3	Firm	TSEM	Gen		U3-PM-140	40820/40814/40815	U3 Gen Unit Material Staged/Delivered(TSEM)	-	951.205	2,758.047	4,644.226	-	951.205	2,758.047	4,644.226	28-Oct-19	16-Jul-19	16-Jul-19	25-Aug-19	-	-	
87	U3	U3	Firm	TSEM	Gen		U3-PM-150		U3 Gen Completion of EX Unit 3 Midsection rewind (TSEM)	-	1,586.395	5,478.996	8,923.901	-	1,586.395	5,478.996	8,923.901	15-Jan-21	2-Oct-20	2-Oct-20	25-Nov-20	-	-	
88	U3	2nd Outage	Firm	TSEM	Gen				U2 2nd Outage Gen Release of unit(TSEM)	-	79.531	450.400	682.900	-	79.531	450.400	682.900		18-Jul-19	18-Jul-19	25-Aug-19	-	-	
89	U3	2nd Outage	Firm	TSEM	Gen				U2 2nd Outage Gen Completion of Preliminary Engineering(TSEM)	-	79.531	450.400	682.900	-	79.531	450.400	682.900		20-Sep-19	20-Sep-19	25-Oct-19	-	-	
90	U3	2nd Outage	Firm	TSEM	Gen				U2 2nd Outage Gen Completion of 50% Design Engineering(TSEM)	-	79.531	450.400	682.900	-	79.531	450.400	682.900		3-Sep-20	3-Sep-20	25-Oct-20	-	-	
91	U3	2nd Outage	Firm	TSEM	Gen				U2 2nd Outage Gen Completion of Design Engineering(TSEM)	-	91.776	484.092	743.252	-	91.776	484.092	743.252		8-Mar-21	8-Mar-21	25-Apr-21	-	-	
92	U3	2nd Outage	Firm	TSEM	Gen				U2 2nd Outage Gen Completion of Material Procurement(TSEM)	-	139.002	747.561	1,152.231	-	139.002	747.561	1,152.231		10-Mar-22	10-Mar-22	25-Apr-22	-	-	
93	U3	2nd Outage	Firm	TSEM	Gen				U2 2nd Outage Gen Completion of Manufacturing(TSEM)	-	119.296	675.600	1,024.350	-	119.296	675.600	1,024.350		10-Apr-22	10-Apr-22	25-May-22	-	-	
94	U3	2nd Outage	Firm	TSEM	Gen				U2 2nd Outage Gen Unit Material Staged/Delivered(TSEM)	-	238.592	1,351.200	2,048.700	-	238.592	1,351.200	2,048.700		22-Jun-22	22-Jun-22	25-Jul-22	-	-	
95	U3	U3	Firm	US	Gen				U3 Gen End Shield & End Casing Machining	91.459	283.120	-	283.120	91.459	283.120	-	283.120	15-Aug-20	15-Aug-20	15-Aug-20	25-Sep-20	-	-	
96	U3	U3	Firm	Rich	Stator				U3 Stator Rewind 12 Months prior to stator arrival	1,100.254	1,007.703	-	1,007.703	1,100.254	1,007.703	-	1,007.703	30-Jun-19	30-Jun-19	30-Jun-19	25-Aug-19	-	-	
97	U3	U3	Firm	Rich	Stator				U3 Stator Rewind Completion of incoming inspection and electrical	825.191	755.777	-	755.777	825.191	755.777	-	755.777	15-Jul-20	15-Jul-20	15-Jul-20	25-Aug-20	-	-	
98	U3	U3	Firm	Rich	Stator				U3 Stator Rewind Stator Frame and Core ready for Winding	1,100.254	1,007.703	-	1,007.703	1,100.254	1,007.703	-	1,007.703	15-Aug-20	15-Aug-20	15-Aug-20	25-Sep-20	-	-	
99	U3	U3	Firm	Rich	Stator				U3 Stator Rewind Bottom bars fitted & HV tested	825.191	755.777	-	755.777	825.191	755.777	-	755.777	15-Sep-20	15-Sep-20	15-Sep-20	25-Oct-20	-	-	
100	U3	U3	Firm	Rich	Stator				U3 Stator Rewind Top bars fitted & HV tested	825.191	755.777	-	755.777	825.191	755.777	-	755.777	1-Oct-20	1-Oct-20	1-Oct-20	25-Nov-20	-	-	
101	U3	U3	Firm	Rich	Stator				U3 Stator Rewind Completion of stator rewind or storage period co	825.191	755.777	-	755.777	825.191	755.777	-	755.777	20-Nov-20	20-Nov-20	20-Nov-20	25-Dec-20	-	-	
102	U1	U1	Firm	TSSM	TC				U1 TC Release of Unit(TSSM)	-	82.459	537.740	802.603	-	82.459	537.740	802.603	20-Mar-15	2-Feb-18	2-Feb-18	25-Mar-18	-	-	
103	U1	U1	Firm	TSSM	TC				U1 TC Completion of Preliminary Engineering(TSSM)	-	123.688	806.611	1,203.904	-	123.688	806.611	1,203.904	24-May-15	8-Apr-18	8-Apr-18	25-May-18	-	-	
104	U1	U1	Firm	TSSM	TC				U1 TC Completion of 50% Design Engineering(TSSM)	-	82.459	537.740	802.603	-	82.459	537.740	802.603	16-Jan-16	1-Dec-18	1-Dec-18	25-Jan-19	-	-	
105	U1	U1	Firm	TSSM	TC				U1 TC Completion of Design Engineering(TSSM)	-	82.459	537.740	802.603	-	82.459	537.740	802.603	16-Apr-17	6-Oct-19	6-Oct-19	25-Nov-19	-	-	
106	U1	U1	Firm	TSSM	TC				U1 TC Completion of Material Procurement(TSSM)	-	164.918	1,075.481	1,605.205	-	164.918	1,075.481	1,605.205	2-Jul-17	22-Dec-19	22-Dec-19	25-Jan-20	-	-	
107	U1	U1	Firm	TSSM	TC				U1 TC Completion of FAT Procedures(TSSM)	-	82.459	537.740	802.603	-	82.459	537.740	802.603	21-Oct-17	11-Apr-20	11-Apr-20	25-May-20	-	-	
108	U1	U1	Firm	TSSM	TC				U1 TC Completion of FAT Testing(TSSM)	-	123.688													

Worksheet 19 - Supply Payment Milestones

Worksheet 19 - Supply Payment Milestones										CD#018 Additional Outage Spare Pa Mar 21 ,2016				CD#019 SFSMS Layout/Configuration Change and CD#20 Limited shelf life materials Mar 28 ,2016										
Subtotal										12,481.79	50,349.06	130,730.703	225,739.51	12,481.79	50,355.91	130,759.134	225,787.86					76.35		
Var. [n-(n-1)]										20.61 38.19 76.349				6.85 28.43 48.349										
ECA Index																								
Exchange Rate																								
No.	OPG Units (old)	OPG Units (Revised)	Fixed or Firm	Alstom Units	Scope	Sub-Scope	P6 ID	Work Package Number	Revised Payment Milestones Description	US Payment (KUSD)	CA Portion (KCAD)	EU Portion (In KEuro)	CAD Payment (KCAD)	US Payment (KUSD)	CA Portion (KCAD)	EU Portion (In KEuro)	CAD Payment (KCAD)	Invoice Date As sold	Invoice Date (N-1)	Invoice Date (N)	Payment Date	Var.Amt n-(n-1)	Var. Days n-(n-1)	Status
146	U4	U4	Firm	TSSM	TC				U4 TC Completion of FAT Testing(TSSM)	-	123.688	806.611	1,203.904	-	123.688	806.611	1,203.904	23-Dec-21	4-Mar-22	4-Mar-22	25-Apr-22	-	-	
147	U4	U4	Firm	TSSM	TC				U4 TC Unit Material Staged/Delivered(TSSM)	-	82.459	537.740	802.603	-	82.459	537.740	802.603	22-Apr-22	2-Jul-22	2-Jul-22	25-Aug-22	-	-	
148	U4	U4	Firm	PAC	TC				U4 TC Release of Unit(PAC)	-	73.027	220.813	368.741	-	73.027	220.813	368.741	30-Jan-19	10-May-20	10-May-20	25-Jun-20	-	-	
149	U4	U4	Firm	PAC	TC				U4 TC Completion of Preliminary Engineering(PAC)	-	109.541	331.220	553.112	-	109.541	331.220	553.112	12-Dec-19	22-Sep-20	22-Sep-20	25-Oct-20	-	-	
150	U4	U4	Firm	PAC	TC				U4 TC Completion of 50% Design Engineering(PAC)	-	73.027	220.813	368.741	-	73.027	220.813	368.741	11-Sep-20	21-Feb-21	21-Feb-21	25-Mar-21	-	-	
151	U4	U4	Firm	PAC	TC				U4 TC Completion of Design Engineering(PAC)	-	73.027	220.813	368.741	-	73.027	220.813	368.741	21-Jul-21	7-May-21	7-May-21	25-Jun-21	-	-	
152	U4	U4	Firm	PAC	TC				U4 TC Completion of Material Procurement(PAC)	-	140.798	426.190	711.204	-	140.798	426.190	711.204	30-Sep-21	17-Jul-21	17-Jul-21	25-Aug-21	-	-	
153	U4	U4	Firm	PAC	TC				U4 TC Completion of FAT Procedures(PAC)	-	73.027	220.813	368.741	-	73.027	220.813	368.741	24-Dec-21	10-Oct-21	10-Oct-21	25-Nov-21	-	-	
154	U4	U4	Firm	PAC	TC				U4 TC Completion of FAT Testing(PAC)	-	109.541	331.220	553.112	-	109.541	331.220	553.112	5-Mar-22	20-Dec-21	20-Dec-21	25-Jan-22	-	-	
155	U4	U4	Firm	PAC	TC				U4 TC Unit Material Staged/Delivered(PAC)	-	73.027	220.813	368.741	-	73.027	220.813	368.741	15-May-22	16-Jul-22	16-Jul-22	25-Aug-22	-	-	
156	U4	U4	Firm	PAC	EC				U4 EC Release of Unit(PAC)	-	45.616	254.179	386.014	-	45.616	254.179	386.014	30-Jan-19	10-May-20	10-May-20	25-Jun-20	-	-	
157	U4	U4	Firm	PAC	EC				U4 EC Completion of Preliminary Engineering(PAC)	-	68.425	381.269	579.021	-	68.425	381.269	579.021	15-Dec-19	22-Sep-20	22-Sep-20	25-Oct-20	-	-	
158	U4	U4	Firm	PAC	EC				U4 EC Completion of 50% Design Engineering(PAC)	-	45.616	254.179	386.014	-	45.616	254.179	386.014	24-Sep-20	21-Feb-21	21-Feb-21	25-Mar-21	-	-	
159	U4	U4	Firm	PAC	EC				U4 EC Completion of Design Engineering(PAC)	-	45.616	254.179	386.014	-	45.616	254.179	386.014	27-May-21	7-May-21	7-May-21	25-Jun-21	-	-	
160	U4	U4	Firm	PAC	EC				U4 EC Completion of Material Procurement(PAC)	-	91.233	519.863	772.028	-	91.233	519.863	772.028	23-Oct-21	22-Apr-22	22-Apr-22	25-May-22	-	-	
161	U4	U4	Firm	PAC	EC				U4 EC Completion of FAT Procedures(PAC)	-	45.616	254.179	386.014	-	45.616	254.179	386.014	7-Jan-22	7-Jul-22	7-Jul-22	25-Aug-22	-	-	
162	U4	U4	Firm	PAC	EC				U4 EC Completion of FAT Testing(PAC)	-	68.425	381.269	579.021	-	68.425	381.269	579.021	5-Mar-22	4-Mar-22	4-Mar-22	25-Apr-22	-	-	
163	U4	U4	Firm	PAC	EC				U4 EC Unit Material Staged/Delivered(PAC)	-	45.616	254.179	386.014	-	45.616	254.179	386.014	15-May-22	16-Jul-22	16-Jul-22	25-Aug-22	-	-	
164	U4	U4	Firm	TSSM	ST				U4 ST Release of Unit(TSSM)	-	167.399	297.505	565.819	-	167.399	297.505	565.819	30-Jan-19	10-May-20	10-May-20	25-Jun-20	-	-	
165	U4	U4	Firm	TSSM	ST				U4 ST Completion of Preliminary Engineering(TSSM)	-	167.399	297.505	565.819	-	167.399	297.505	565.819	17-Apr-19	18-Nov-20	18-Nov-20	25-Dec-20	-	-	
166	U4	U4	Firm	TSSM	ST				U4 ST Completion of Design Engineering(TSSM)	-	167.399	297.505	565.819	-	167.399	297.505	565.819	28-Jan-21	7-May-21	7-May-21	25-Jun-21	-	-	
167	U4	U4	Firm	TSSM	ST				U4 ST Completion of Material Procurement(TSSM)	-	334.799	595.010	1,131.639	-	334.799	595.010	1,131.639	22-Jun-21	22-Apr-22	22-Apr-22	25-May-22	-	-	
168	U4	U4	Firm	TSSM	ST				U4 ST Completion of Manufacturing(TSSM)	-	334.799	595.010	1,131.639	-	334.799	595.010	1,131.639	4-Jan-22	7-May-22	7-May-22	25-Jun-22	-	-	
169	U4	U4	Firm	TSSM	ST				U4 ST Unit Material Staged/Delivered(TSSM)	-	502.198	892.516	1,697.458	-	502.198	892.516	1,697.458	19-Mar-22	16-Jul-22	16-Jul-22	25-Aug-22	-	-	
170	U4	U4	Firm	US	ST				U4 ST Erosion Protection Ring Machining(US)	302.553	674.649	-	674.649	302.553	674.649	-	674.649	6-Apr-21	3-Aug-21	3-Aug-21	25-Sep-21	-	-	
171	U4	U4	Firm	TSEM	Gen				U4 Gen Release of unit(TSEM)	-	232.569	971.698	1,533.965	-	232.569	971.698	1,533.965	2-Aug-18	11-Nov-19	11-Nov-19	25-Dec-19	-	-	
172	U4	U4	Firm	TSEM	Gen				U4 Gen Completion of Preliminary Engineering(TSEM)	-	232.569	971.698	1,533.965	-	232.569	971.698	1,533.965	9-Oct-18	18-Jan-20	18-Jan-20	25-Feb-20	-	-	
173	U4	U4	Firm	TSEM	Gen				U4 Gen Completion of 50% Design Engineering(TSEM)	-	232.569	971.698	1,533.965	-	232.569	971.698	1,533.965	23-Mar-19	1-Jul-20	1-Jul-20	25-Aug-20	-	-	
174	U4	U4	Firm	TSEM	Gen				U4 Gen Completion of Design Engineering(TSEM)	-	244.815	1,005.389	1,594.317	-	244.815	1,005.389	1,594.317	5-Sep-19	7-May-21	7-May-21	25-Jun-21	-	-	
175	U4	U4	Firm	TSEM	Gen				U4 Gen Completion of Material Procurement(TSEM)	-	257.162	1,049.023	1,691.949	-	257.162	1,049.023	1,691.949	9-Dec-19	22-Apr-22	22-Apr-22	25-May-22	-	-	
176	U4	U4	Firm	TSEM	Gen				U4 Gen Completion of Manufacturing(TSEM)	-	348.854	1,457.546	2,300.947	-	348.854	1,457.546	2,300.947	14-May-20	3-May-22	3-May-22	25-Jun-22	-	-	
177	U4	U4	Firm	TSEM	Gen				U4 Gen Unit Material Staged/Delivered(TSEM)	-	348.854	1,457.546	2,300.947	-	348.854	1,457.546	2,300.947	21-Jan-21	16-Jul-22	16-Jul-22	25-Aug-22	-	-	
178	U4	U4	Firm	TSEM	Gen				U4 Gen Completion of EX Unit 4 rewind (TSEM)	-	465.139	1,943.395	3,067.930	-	465.139	1,943.395	3,067.930	5-Jul-22	28-Dec-23	28-Dec-23	25-Feb-24	-	-	
179	U4	U4	Firm	US	Gen				U4 Gen End Shield & End Casing Machining	182.919	791.599	-	791.599	182.919	791.599	-	791.599	15-Feb-22	10-Aug-23	10-Aug-23	25-Sep-23	-	-	
180	U4	U4	Firm	Rich	Stator				U4 Stator Rewind 12 Months prior to stator arrival	825.191	755.777	-	755.777	825.191	755.777	-	755.777	10-Dec-20	4-Jun-22	4-Jun-22	25-Jul-22	-	-	
181	U4	U4	Firm	Rich	Stator				U4 Stator Rewind Completion of incoming inspection and electrical	1,100.254	1,007.703	-	1,007.703	1,100.254	1,007.703	-	1,007.703	25-Dec-21	19-Jun-23	19-Jun-23	25-Jul-23	-	-	
182	U4	U4	Firm	Rich	Stator				U4 Stator Rewind Stator Frame and Core ready for Winding	1,100.254	1,007.703	-	1,007.703	1,100.254	1,007.703	-	1,007.703	25-Jan-22	20-Jul-23	20-Jul-23	25-Aug-23	-	-	
183	U4	U4	Firm	Rich	Stator				U4 Stator Rewind Bottom bars fitted & HV tested	825.191	755.777	-	755.777	825.191	755.777	-	755.777	25-Feb-22	20-Aug-23	20-Aug-23	25-Sep-23	-	-	
184	U4	U4	Firm	Rich	Stator				U4 Stator Rewind Top bars fitted & HV tested	825.191	755.777	-	755.777	825.191	755.777	-	755.777	15-Mar-22	7-Sep-23	7-Sep-23	25-Oct-23	-	-	
185	U4	U4	Firm	Rich	Stator				U4 Stator Rewind Completion of stator rewind or storage period co	825.191	755.777	-	755.777	825.191	755.777	-	755.777	30-Apr-22	23-Oct-23	23-Oct-23	25-Nov-23	-	-	
186	U2	U2	Fixed	TSEM	Gen				CD#003 7326019901: Generator Auxiliary Bridging Solution	-	265.000	-	265.000	-	265.000	-	265.000		24-Nov-14	24-Nov-14	25-Dec-14	-	-	Paid
187	U2	U2	Fixed						CD#004 Defferal and unlapping assessment	-	-	-	-	-	-	-	-	20-Jul-22	20-Jul-22	25-Aug-22	25-Aug-22	-	-	Cancelled
188	U2	U2	Fixed	PAC	EC		PM1 1280	30615	CD #019 - SFSMS Layout/Configuration change	-	-	-	-	-	6.853	28.431	48.349			29-Apr-16	25-Jun-16	-	-	
189	U3	U3	Fixed	PAC	TC		U3-PM-350	30562	CD#016 40% upon signing of change directive (TC)	-	-	59.316	91.195	-	-	59.316	91.195			18-Jan-16	25-Feb-1			

JK
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Worksheet 20 - INVOICING SUMMARY

$$\text{Var.} = N - (N - 1)$$

Fiscal Year	Calendar Year	Month	228,221	238,507	238,632	46,012	50,736	50,736	15,502	15,975	15,975	52,417	52,417	52,417	10,285	10,285	10,285	12,712	13,320	13,320	3,310	3,443	3,443	4,015	4,015	4,015	372,475	388,699	388,824	
			As Sold Supply (CAD)	A/F(n-1) Supply (CAD)	A/F(n) Supply (CAD)	As Sold Core PM	A/F(n-1) Core PM	A/F(n) Core PM	As Sold TFA Resident	A/F(n-1) TFA Resident	A/F(n) TFA Resident	As Sold TFA Reimb	A/F(n-1) TFA Reimb	A/F(n) TFA Reimb	As Sold Transport Reimb	A/F(n-1) Transport Reimb	A/F(n) Transport Reimb	As Sold Hedging cost	A/F(n-1) Hedging cost	A/F(n) Hedging cost	As Sold LOC	A/F(n-1) LOC	A/F(n) LOC	As Sold TFA Travel Expense	A/F(n-1) TFA Travel Expense	A/F(n) TFA Travel Expense	As Sold Subtotal	A/F(n-1) Subtotal	A/F(n) Subtotal	Status
Period				N-1	N																									
2013	2013	Apr	10,038.15	10,038.15	10,038.15	1,426.00	1,426.00	1,426.000	111.53	-	-																			
2013	2013	May	2,259.38	-	-	-	-	-	-	-	-								182.70	182.70	182.70									
2013	2013	Jun	3,281.06	2,226.20	2,226.20	-	-	-	-	-	-								288.46	288.46	288.46									
2013	2013	Jul	-	1,252.78	1,252.78	1,426.00	1,418.96	1,418.959	111.53	-	-								281.98	174.75	174.75	31.69								
2013	2013	Aug	-	-	-	-	-	-	-	-	-											23.99	23.99							
2013	2013	Sep	-	-	-	-	-	-	-	-	-								-	-	-									
2013	2013	Oct	-	1,972.81	1,972.81	1,426.00	1,422.48	1,422.480	111.53	323.05	323.050								281.93	451.18	451.18	31.69								
2013	2013	Nov	-	-	-	-	-	-	-	-	-								-	-	-									
2013	2013	Dec	-	-	-	-	-	-	-	-	-								-	-	-									
2013	2014	Jan	2,007.35	-	-	1,426.00	1,422.48	1,422.480	223.05	220.97	220.967								277.34	434.35	434.35	31.69								
2013	2014	Feb	3,860.87	1,898.99	1,898.99	-	-	-	-	-	-								276.74	125.66	125.66		24.25	24.25						
2013	2014	Mar	2,259.38	1,990.08	1,990.08	-	-	-	-	-	-								268.35	121.28	121.28									
2014	2014	Apr	-	-	-	1,288.00	1,284.82	1,284.820	223.05	220.97	220.967								265.49	142.99	142.99	31.69	24.01	24.01						
2014	2014	May	-	4,141.83	4,141.83	-	-	-	-	-	-								-	109.54	109.54									
2014	2014	Jun	-	-	-	-	-	-	-	-	-								-	-	-									
2014	2014	Jul	-	-	-	-	-	-	-	-	-								-	-	-									
2014	2014	Aug	2,259.38	1,914.70	1,914.70	1,242.00	1,345.49	1,345.490	223.05	242.18	242.180								264.94	319.07	319.07	31.69	23.47	23.47						
2014	2014	Sep	-	-	-	-	-	-	-	-	-								264.41	143.60	143.60									
2014	2014	Oct	-	-	-	1,242.00	1,309.24	1,309.237	223.05	228.04	228.038								261.55	324.68	324.68	31.69	23.73	23.73						
2014	2014	Nov	3,860.87	1,530.34	1,530.34	-	-	-	-	-	-								261.02	140.74	140.74									
2014	2014	Dec	-	-	-	-	-	-	-	-	-								258.30	-	-									
2014	2015	Jan	-	-	-	1,242.00	1,309.24	1,309.237	223.05	228.04	228.038								255.61	346.02	346.022	31.69	23.99	23.99						
2014	2015	Feb	-	8,323.82	8,323.82	-	-	-	-	-	-								-	114.23	114.229									
2014	2015	Mar	4,490.88	-	-	-	-	-	-	-	-								255.08	-	-									
2015	2015	Apr	4,266.72	-	-	966.00	989.63	989.635	223.05	228.04	228.038								250.81	256.73	256.729	31.69	23.99	23.99						
2015	2015	May	2,254.83	5,182.22	5,182.22	-	-	-	-	-	-								246.10	131.67	131.671									
2015	2015	Jun	607.28	-	-	-	-	-	-	-	-								240.01	-	-									
2015	2015	Jul	3,268.58	-	-	966.00	952.91	952.911	223.05	228.04	228.038								239.31	290.01	290.012	31.69	23.47	23.47						
2015	2015	Aug	3,164.28	-	-	-	-	-	-	-	-								236.92	185.44	-									
2015	2015	Sep	1,930.52	4,701.60	4,701.60	966.00	955.35	955.353	223.05	394.73	394.732								230.61	185.13	199.988									
2015	2015	Oct	-	273.37	273.37	-	-	-	-	-	-								227.89	176.16	70.340	31.69	24.82	23.73						
2015	2015	Nov	1,338.23	4,238.40	4,238.40	-	-	-	-	-	-								227.48	173.66	96.406									
2015	2015	Dec	4,833.29	5,946.03	5,946.03	-	-	-	-	-	-								226.50	346.70	181.600									
2015	2016	Jan	5,853.85	204.70	204.70	1,012.00	1,015.72	1,015.72	334.58	329.57	329.57								219.03	-	119.404	31.69	24.82	29.82						
2015	2016	Feb	3,209.19	-	-	-	-	-	-	-	-								217.42	166.05	-									
2015	2016	Mar	10,635.89	4,250.93	4,250.93	-	-	-	-	-	-								206.08	165.72	268.875									
2016	2016	Apr	-	-	-	1,058.00	994.16	994.16	334.58	341.84	341.84								192.61	163.17	161.069	31.69	24.82	19.50						
2016	2016	May	3,847.62	4,062.16	4,110.51	-	-	-	-	-	-								192.16	320.00	324.424									
2016	2016	Jun	1,338.23	-	-	-	-	-	-	-	-								187.11	-	-									
2016	2016	Jul	4,080.16	3,025.31	2,983.36	1,242.00	1,037.28	1,037.28	334.58	341.84	341.84								185.12	156.06	316.807	31.69	24.82	24.82						
2016	2016	Aug	1,039.84	1,089.00	1,089.00	-	-	-	-	-	-								179.03	153.15	155.461									
2016	2016	Sep	-	6,856.51	6,932.86	-	-	-	-	-	-								-	149.10	154.321									
2016	2016	Oct	370.56	-	-	1,058.00	976.91	976.91	334.58	341.84	341.84								177.72	144.25	147.931	31.69	24.82	24.82						
2016	2016	Nov	389.30	-	-	-	-	-	-	-	-								177.27	427.52	-									
2016	2016	Dec	-	-	-	-	-	-	-	-	-								-	-	-									
2016	2017	Jan	4,488.02	2,071.42	2,071.42	920.00	925.17	925.17	334.58	341.84	341.84	1,464.91	1,464.91						176.24	-	442.878	74.82	74.82	74.82	111.53	111.53				
2016	2017	Feb	2,140.05	726.00	726.00	-	-	-	-	-	-	-	1,464.91	1,464.91					169.85	426.58	145.236				111.53	111.53				
2016	2017	Mar	2,167.04	1,673.96	1,673.96	-	-	-	-	-	-	-	1,464.91	1,464.91					166.98	-	144.476				111.53	111.53				
2017	2017	Apr	2,024.98	3,888.70	3,888.70	920.00	925.17	925.17	334.58	341.84	341.84	1,464.91	1,464.91	1,464.91					166.29	-	428.337	74.82	74.82	74.82	111.53	111.53	111.53			
2017	2017	May	570.20	-	-	-	-	-	-	-	-	-	1,464.91	1,464.91	1,464.91				162.69	425.69	-				111.53	111.53	111.53			
2017	2017	Jun	-	-	-	-	-	-	-	-	-	-	1,464.91	1,464.91	1,464.91				-	-	-				111.53	111.53	111.53			
2017	2017	Jul	2,968.83	5,464.61	5,464.61	1,012.00	985.54	985.54	334.58	341.84	341.84	1,464.91	1,464.91	1,464.91					160.27	141.10	415.312	74.82	74.82	74.82	111.53	111.53	111.53			
2017	2017	Aug	1,214.56	-	-	-	-	-	-	-	-	-	1,464.91	1,464.91	1,464.91				156.94	412.35	-				111.53	111.53	111.53			
2017	2017	Sep	-	370.56	41.95	-	-	-	-	-	-	-	1,464.91	1,464.91	1,464.91				155.54	-	133.653				111.53	111.53	111.53			
2017	2017	Oct	5,208.01	-	-	1,058.00	1,028.65	1,028.65	334.58	341.84	341.84	-	-	1,464.91					155.06	-	133.619	74.82	74.82				111.53	6,920.46	1,445.32	3,155.38
2017	2017	Nov	2,300.88	569.90	569.90	-	-	-	-	-	-	-	-	1,464.91					145.01	409.92	266.286				111.53	2,445.89	979.81	2,412.62		
2017	2017	Dec	1,588.59	-	-	-	-	-	-	-	-	-	-	1,464.91					142.02	-	-				111.53					

Hedging Cost Flow (in KCAD)											145,371
FX Date	Euro Invoice (Cul)	Additional Hedged Amt (KEUR)	Hedged Amt (in KEURO)	Spot Rate	Forward Rate	Hedging cost	Invoice Date	OPG Payment Date	Status	Monthly Invoice	
Apr-13	6,438,900		137,676.800	1.339650	1.340977	182,697	4,416.00	25-Jun-13	Paid	6,438.90	
May-13	6,438,900		131,237.900							-	
Jun-13	7,751,700		131,237.900	1.335240	1.337438	288,461	41,430.00	25-Jul-13	Paid	1,312.80	
Jul-13	8,693,300		129,925.100	1.365136	1.366481	174,749	41,474.00	25-Aug-13	Paid	941.60	
Aug-13	8,693,300		128,963.500							-	
Sep-13	8,693,300		128,963.500							-	
Oct-13	10,337,810		128,963.500	1.394849	1.398347	451,184	41,556.00	25-Nov-13	Paid	1,644.51	
Nov-13	10,337,810		127,338.900							-	
Dec-13	10,337,810		127,338.900							-	
Jan-14	10,616,427		127,338.990	1.414777	1.418188	434,353	41,646.00	25-Feb-14	Paid	276.62	
Feb-14	11,684,127		127,060.373	1.519504	1.520493	125,663	41,691.00	25-Mar-14	Paid	1,247.70	
Mar-14	13,230,777		125,812.673	1.552908	1.553872	121,283	41,719.00	25-Apr-14	Paid	1,366.65	
Apr-14	13,482,432		124,446.023	1.522370	1.523519	142,988	41,752.00	25-May-14	Paid	251.65	
May-14	16,034,082		124,194.368	1.492240	1.493122	109,539	41,781.00	25-Jun-14	Paid	1,585.22	
Jun-14	16,034,082		121,642.718							-	
Jul-14	17,533,724		121,642.718	1.474542	1.477165	319,069	41,836.00	25-Aug-14	Paid	1,499.64	
Aug-14	17,752,574	11,716	120,154.792	1.445870	1.447168	0,015	41,867.00	25-Sep-14	Paid	-	
Sep-14	18,772,574		118,915.942	1.456553	1.457748	143,585	41,867.00	25-Sep-14	Paid	1,238.85	
Oct-14	19,018,152		118,670.364	1.411830	1.414366	324,682	6-Oct-14	25-Nov-14	Paid	245.58	
Nov-14	19,680,752		118,670.364	1.411793	1.412979	140,743	24-Nov-14	25-Dec-14	Paid	662.60	
Dec-14	19,926,331		118,007.764	1.427227	1.430159	346,022	12-Jan-15	25-Feb-15	Paid	245.58	
Jan-15	19,926,331		117,762.185							-	
Feb-15	25,137,453		117,762.185	1.426608	1.427578	114,229			Paid	5,211.12	
Mar-15	25,328,462		112,551.063	1.356934	1.359215	256,729	10-Apr-15	25-May-15	Paid	191.01	
Apr-15	25,328,462		112,360.054	1.354655	1.357555	123,596	21-May-15	25-Jun-15	Paid	-	
May-15	28,304,408	6,871,980	119,232.033	1.361860	1.363035	8,075	25-May-15	25-Jun-15	Paid	2,975.95	
Jun-15	28,304,408		116,256.087							-	
Jul-15	28,304,389		116,256.087	1.390530	1.393025	290,012	25-Jul-15	25-Aug-15	Paid	191.89	
Aug-15	28,496,277		116,064.200							-	
Sep-15		169,688		1.494860	1.496294	0,242	8-Sep-15	25-Oct-15	Paid	-	
Oct-15	31,476,112		116,232.888	1.462528	1.464249	199,746	8-Sep-15	25-Oct-15	Paid	2,979.64	
Nov-15	31,843,202		113,253.052	1.486206	1.488634	70,340			Paid	367.18	
Dec-15	34,588,402		112,685.673			96,406			Paid	2,745.20	
Jan-16	38,293,994		110,140.673	1.487406	1.489055	181,600			Paid	3,695.50	
Feb-16	38,621,181	575,360	107,020.530	1.542694	1.543809	119,404			Paid	337.19	
Mar-16	40,901,520		106,683,344	1.561156	1.563650	268,875				2,280.34	
Apr-16	41,101,221	66,624	104,469,628	1.498612	1.500154	161,069				199.70	
May-16	43,549,396		104,269,928							2,448.17	
Jun-16	43,549,396		101,821,753							-	
Jul-16	45,441,147		101,821,753							1,891.75	
Aug-16	46,173,958		99,930,001							732.81	
Sep-16	50,281,035		99,197,191							4,107.08	
Oct-16	50,477,263		95,090,113							196.23	
Nov-16	50,477,263		94,893,885							-	
Dec-16	50,477,263		94,893,885							-	
Jan-17	52,013,372		94,893,885							1,536.11	
Feb-17	52,501,913		93,357,776							488.54	
Mar-17	53,592,963		92,669,236							1,091.05	
Apr-17	56,383,652		91,778,186							2,790.69	
May-17	56,383,652		88,997,497							-	
Jun-17	56,383,652		88,997,497							-	
Jul-17	59,458,836		88,997,497							3,075.18	
Aug-17	59,458,836		85,912,313							-	
Sep-17	59,480,758		85,912,313							21.92	
Oct-17	59,786,986		85,890,391							306.23	
Nov-17	60,086,483		85,584,163							299.50	
Dec-17	60,086,483		85,284,665							-	
Jan-18	61,029,731		85,284,665							943.25	
Feb-18	62,361,184		84,341,417							1,331.45	
Mar-18	62,361,184		83,009,964							-	
Apr-18	66,485,630		83,009,964							4,124.45	
May-18	66,485,630		78,885,518							-	
Jun-18	68,684,062		78,885,518							2,198.43	
Jul-18	69,490,572		76,687,087							806.61	
Aug-18	69,490,572		75,880,577							-	
Sep-18	69,490,572		75,880,577							-	
Oct-18	73,114,369		75,880,577							3,623.80	
Nov-18	73,114,369		72,256,779							-	
Dec-18	74,364,598		72,256,779							1,250.23	
Jan-19	74,554,748		71,006,550							190.15	
Feb-19	75,172,667		70,816,400							617.92	
Mar-19	75,172,667		70,198,482							-	
Apr-19	75,978,308		70,198,482							805.64	
May-19	76,466,849		69,392,840							488.54	
Jun-19	76,726,099		68,904,300							259.25	
Jul-19	81,410,015		68,645,050							4,683.92	
Aug-19	81,885,008		63,961,133							474.99	
Sep-19	82,556,221		63,486,141							671.21	
Oct-19	85,034,641		62,814,928							2,478.62	
Nov-19	86,006,539		60,338,308							971.70	
Dec-19	87,508,211		59,364,609							1,501.67	
Jan-20	88,968,335		57,862,938							1,460.12	
Feb-20	89,972,538		56,402,813							1,004.20	
Mar-20	90,713,214		55,398,610							740.68	
Apr-20	91,730,698		54,657,934							1,017.48	
May-20	94,221,993		53,640,450							2,491.29	
Jun-20	94,934,482		51,149,156							712.49	
Jul-20	98,711,633		50,436,667							3,777.15	
Aug-20	98,711,633		46,659,515							-	
Sep-20	100,511,962		46,659,515							1,800.33	
Oct-20	107,133,321		44,659,187							6,621.36	
Nov-20	107,968,967		39,237,827							635.25	
Dec-20	111,263,474		37,402,562							3,284.91	
Jan-21	111,460,122		34,117,674							206.65	
Feb-21	112,472,854		33,911,027							1,012.73	
Mar-21	113,431,938		32,698,294							959.08	
Apr-21	114,655,768		31,938,210							1,223.83	
May-21	116,971,395		30,715,381							2,315.63	
Jun-21	116,971,395		28,399,754							-	
Jul-21	117,877,329		28,399,754							905.93	
Aug-21	117,877,329		27,493,820							-	
Sep-21	117,877,329		27,493,820							-	
Oct-21	118,612,616		27,493,820							735.29	
Nov-21	118,833,429		26,759,533							220.81	
Dec-21	119,856,589		26,537,719							1,123.14	
Jan-22	121,166,166		25,414,580							1,209.60	
Feb-22	121,166,166		24,204,983							-	
Mar-22	123,101,607		24,204,983							1,935.44	
Apr-22	131,171,728		22,269,542							8,070.12	
May-22	133,224,284		14,199,420							2,052.56	
Jun-22	135,951,577		12,146,864							2,727.29	
Jul-22	139,758,700		9,419,572							3,807.12	

Worksheet 20 - INVOICING SUMMARY

$$\text{Var.} = N - (N - 1)$$

Fiscal Year	Calendar Year	Month	228,221	238,507	238,632	46,012	50,736	50,736	15,502	15,975	15,975	52,417	52,417	52,417	10,285	10,285	10,285	12,712	13,320	13,320	3,310	3,443	3,443	4,015	4,015	4,015	372,475	388,699	386,824	Status	
			As Sold Supply (CAD)	A/F(n-1) Supply (CAD)	A/F(n) Supply (CAD)	As Sold Core PM	A/F(n-1) Core PM	A/F(n) Core PM	As Sold TFA Resident	A/F(n-1) TFA Resident	A/F(n) TFA Resident	As Sold TFA Reimb	A/F(n-1) TFA Reimb	A/F(n) TFA Reimb	As Sold Transport Reimb	A/F(n-1) Transport Reimb	A/F(n) Transport Reimb	As Sold Hedging cost	A/F(n-1) Hedging cost	A/F(n) Hedging cost	As Sold LOC	A/F(n-1) LOC	A/F(n) LOC	As Sold TFA Travel Expense	A/F(n-1) TFA Travel Expense	A/F(n) TFA Travel Expense	As Sold Subtotal	A/F(n-1) Subtotal	A/F(n) Subtotal		
2022	2022	Oct		-	-	782.00	722.51	722.51	334.58	341.84	341.84							2.39	-	26.194	74.82	74.82	74.82				1,193.79	1,139.18	1,165.38		
2022	2022	Nov		-	-		-	-	-	-	-							-	22.61	-	-	-	-	-				-	22.61	-	
2022	2023	Jan		-	-	782.00	720.07	720.07	334.58	341.84	341.84							2.06	-	24.529	74.82	74.82	74.82				1,193.46	1,136.74	1,161.27		
2022	2023	Feb		-	-		-	-	-	-	-							-	22.11	-	-	-	-	-				-	22.11	-	
2022	2023	Mar		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2023	2023	Apr		-	-	736.00	763.19	763.19	334.58	341.84	341.84							1.73	-	22.865	74.82	74.82	74.82				1,147.13	1,179.86	1,202.72		
2023	2023	May		-	-		-	-	-	-	-							-	21.42	-	-	-	-	-				-	21.42	-	
2023	2023	Jun		2,139.86	2,139.86		-	-	-	-	-								-	-	-	-	-	-				-	2,139.86	2,139.86	
2023	2023	Jul		2,139.86	2,139.86	414.00	754.57	754.57	334.58	341.84	341.84							1.41	-	20.877	74.82	74.82	74.82				824.82	3,311.10	3,331.98		
2023	2023	Aug		2,584.72	2,584.72		-	-	-	-	-							-	19.38	-	-	-	-	-				-	2,584.72	2,584.72	
2023	2023	Sep		1,604.90	1,604.90		-	-	-	-	-							-	-	-	-	-	-				-	1,604.90	1,604.90		
2023	2023	Oct		1,604.90	1,604.90	414.00	720.07	720.07	334.58	341.84	341.84							1.24	-	18.898	74.82	74.82	74.82				824.64	2,741.64	2,760.54		
2023	2023	Nov		-	-		-	-	-	-	-							-	11.57	-	-	-	-	-				-	11.57	-	
2023	2023	Dec		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2023	2024	Jan		3,067.93	3,067.93	506.00	672.64	672.64	334.58	341.84	341.84				3,734.14	3,734.14	3,734.14	1.06	5.12	16.950	74.82	74.82	74.82				4,650.61	7,896.50	7,908.33		
2023	2024	Feb		-	-		-	-	-	-	-							-	6.05	-	-	-	-	-				-	6.05	-	
2023	2024	Mar		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2024	2024	Apr		-	-	506.00	431.18	431.18	334.58	341.84	341.84							0.85	-	5.978	74.82	74.82	74.82				916.25	847.85	853.83		
2024	2024	May		-	-		-	-	-	-	-							-	4.10	-	-	-	-	-				-	4.10	-	
2024	2024	Jun		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2024	2024	Jul		-	-	460.00	431.18	431.18	334.58	341.84	341.84							0.63	-	5.573	74.82	74.82	74.82				870.03	847.85	853.42		
2024	2024	Aug		-	-		-	-	-	-	-							-	3.69	-	-	-	-	-				-	3.69	-	
2024	2024	Sep		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2024	2024	Oct		-	-	414.00	422.56	422.56	334.58	341.84	341.84							0.44	-	5.167	74.82	74.82	74.82				823.84	839.22	844.39		
2024	2024	Nov		-	-		-	-	-	-	-							-	3.27	-	-	-	-	-				-	3.27	-	
2024	2024	Dec		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2024	2025	Jan		-	-	322.00	457.05	457.05	334.58	341.84	341.84							0.26	-	4.770	17.61	17.61	17.61				674.44	816.50	821.27		
2024	2025	Feb		-	-		-	-	-	-	-							-	2.87	-	-	-	-	-				-	2.87	-	
2024	2025	Mar		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2025	2025	Apr		-	-	288.00	500.17	500.17	334.58	341.84	341.84							0.12	-	4.341	17.61	17.61	17.61				640.30	859.62	863.96		
2025	2025	May		-	-		-	-	-	-	-							-	2.43	-	-	-	-	-				-	2.43	-	
2025	2025	Jun		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2025	2025	Jul		-	-		500.17	500.17	334.58	341.84	341.84							-	-	3.871	17.61	17.61	17.61				352.18	858.62	863.49		
2025	2025	Aug		-	-		-	-	-	-	-							-	1.94	-	-	-	-	-				-	1.94	-	
2025	2025	Sep		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2025	2025	Oct		-	-		448.43	448.43	334.58	341.84	341.84							-	-	3.401	17.61	17.61	17.61				352.18	807.88	811.28		
2025	2025	Nov		-	-		-	-	-	-	-							-	1.46	-	-	-	-	-				-	1.46	-	
2025	2025	Dec		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2025	2026	Jan		-	-		388.06	388.06	-	-	-							-	-	2.979	17.61	17.61	17.61				17.61	405.67	408.65		
2025	2026	Feb		-	-		-	-	-	-	-							-	1.03	-	-	-	-	-				-	1.03	-	
2025	2026	Mar		-	-		-	-	-	-	-							-	-	0.871	-	-	-				-	-	-		
2026	2026	Apr		-	-		340.63	340.63	-	-	-							-	-	0.542	17.61	17.61	17.61				17.61	358.24	358.78		
2026	2026	May		-	-		-	-	-	-	-							0.00	0.22	0.436	-	-	-				0.00	0.22	0.44		
2026	2026	Jun		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2026	2026	Jul		-	-		340.63	340.63	-	-	-							-	-	-	17.61	17.61	17.61				17.61	358.24	358.24		
2026	2026	Aug		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2026	2026	Sep		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2026	2026	Oct		-	-		-	-	-	-	-							-	-	-	17.61	17.61	17.61				17.61	17.61	17.61		
2026	2026	Nov		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2026	2026	Dec		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2026	2027	Jan		-	-		-	-	-	-	-							-	-	-	17.61	17.61	17.61				17.61	17.61	17.61		
2026	2027	Feb		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2026	2027	Mar		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2026	2027	Apr		-	-		-	-	-	-	-							-	-	-	17.61	17.61	17.61				17.61	17.61	17.61		
2027	2027	May		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2027	2027	Jun		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2027	2027	Jul		-	-		-	-	-	-	-							-	-	-	17.61	17.61	17.61				17.61	17.61	17.61		
2027	2027	Aug		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2027	2027	Sep		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2027	2027	Oct		-	-		-	-	-	-	-							-	-	-	17.61	17.61	17.61				17.61	17.61	17.61		
2027	2027	Nov		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2027	2027	Dec		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		
2027	2028	Jan		-	-		-	-	-	-	-							-	-	-	17.61	17.61	17.61				17.61	17.61	17.61		
2027	2028	Feb		-	-		-	-	-	-	-							-	-	-	-	-	-				-	-	-		

Hedging Cost Flow (in KCAD)											145,371
	FX Date	Euro Invoice (Cul.)	Additional Hedged Amt (K€(L))	Hedged Amt (in K€(R))	Spot Rate	Forward Rate	Hedging cost	Invoice Date	OPG Payment Date	Status	Monthly Invoice
3	Aug-22	130,758,700		5,612,448							-
1	Sep-22	130,758,700		5,612,448							-
1	Oct-22	140,115,310		5,612,448							356.61
3	Nov-22	140,115,310		5,255,839							-
1	Dec-22	140,115,310		5,255,839							-
1	Jan-23	140,471,919		5,255,839							356.61
3	Feb-23	140,471,919		4,899,229							-
1	Mar-23	140,471,919		4,899,229							-
1	Apr-23	140,897,830		4,899,229							425.91
3	May-23	140,897,830		4,473,318							-
1	Jun-23	140,897,830		4,473,318							-
1	Jul-23	141,322,005		4,473,318							424.17
1	Aug-23	141,322,005		4,049,144							-
1	Sep-23	141,322,005		4,049,144							-
1	Oct-23	141,739,233		4,049,144							417.23
3	Nov-23	141,739,233		3,631,915							-
1	Dec-23	141,739,233		3,631,915							-
1	Jan-24	144,090,306		3,631,915							2,351.07
3	Feb-24	144,090,306		1,280,843							-
1	Mar-24	144,090,306		1,280,843							-
1	Apr-24	144,177,132		1,280,843							86.83
3	May-24	144,177,132		1,194,016							-
1	Jun-24	144,177,132		1,194,016							-
1	Jul-24	144,263,959		1,194,016							86.83
3	Aug-24	144,263,959		1,107,190							-
1	Sep-24	144,263,959		1,107,190							-
1	Oct-24	144,349,049		1,107,190							85.09
3	Nov-24	144,349,049		1,022,100							-
1	Dec-24	144,349,049		1,022,100							-
1	Jan-25	144,441,085		1,022,100							92.04
3	Feb-25	144,441,085		930,064							-
1	Mar-25	144,441,085		930,064							-
1	Apr-25	144,541,804		930,064							100.72
3	May-25	144,541,804		829,345							-
1	Jun-25	144,541,804		829,345							-
1	Jul-25	144,642,523		829,345							100.72
3	Aug-25	144,642,523		728,626							-
1	Sep-25	144,642,523		728,626							-
1	Oct-25	144,732,822		728,626							90.30
3	Nov-25	144,732,822		638,326							-
1	Dec-25	144,732,822		638,326							-
1	Jan-26	144,810,966		638,326							78.14
1	Feb-26	144,810,966		560,182							-
1	Mar-26	145,022,575		560,182							211.61
	Apr-26	145,091,168		348,573							68.59
	May-26	145,091,168		279,980							-
	Jun-26	145,302,778		280,200							211.61
	Jul-26	145,371,371		68,591							68.59
	Aug-26	145,371,371		(0.002)							-
	Sep-26	145,371,371		(0.002)							-



Schedule 7.1 - Contract Price

Attachment 7.1(d)

Optional Scope

OPG may elect to proceed with Optional Scope according to section 2.9(d) of the Agreement.

The quantities of parts listed in Worksheets 4 through 11 inclusive are included in the Contract Price and price summary included in Schedule 7.1, Attachment 7.1(a), and are included in the amounts listed in the Milestone Payment Schedule. OPG may elect to purchase additional parts above the quantities listed. Such additional parts will be Optional Scope.

The Work set out in Worksheet 2 Optional Scope Summary and Worksheet 3 Contingency Scope Summary is Optional Scope and is not included in the Contract Price and price summary included in Schedule 7.1, Attachment 7.1(a), and is not included in the amounts listed in the Milestone Payment Schedule..

Spare Parts are defined as those parts captured under worksheets 4, 5, 7 to 11 of the contract pricing workbook. The initial or subsequent order discount will only apply to parts contained in these worksheets.

Worksheet 2 captures the pricing for the MSR study as defined in Document TS-OFFR-ENG-005 Rev 000

Spare parts orders executed as Optional Scope under the Agreement will be subject to the following discount table:

Value of single parts order release within contract	Discount applied to parts order
C\$ 0 up to C\$ 1,000,000.00	Discount is not applicable
C\$ 1,000,000.01 to 5,000,000.00	2.0 % Discount is applied
C\$ 5,000,000.01 to 10,000,000.00	4.0% Discount is applied
C\$ 10,000,000.01 and above	6.0 % Discount is applied

Special Notes:

Discounting is non-cumulative.



Discounting levels apply to a single batch release of a parts order within the contract.

For greater certainty, where OPG releases C\$ 25 Million in a single release of appropriate parts:

- For first C\$ 1 Mill no discount is applied
- For the next C\$ 4Million, a discount of 2.0% is applied (C\$ 80K)
- For the next C\$ 5 Million, a discount of 4% is applied (C\$200K)
- For the next C\$15 Million, a discount of 6% is applied (C\$900K)

Therefore the total discount of C\$ 1,180 K would be applied as a line item discount to the project.



Back to Base Scope Summary

Worksheet 2

SOW	SOW Clause	Optional Scope Summary	Lead Time	Fixed Unit 2 Price	Firm Unit 1 Price	Firm Unit 3 Price	Firm Unit 4 Price	Comments
Generator & Aux	NK38-SOW-42000-10002 2.5 (d&j)	Seal Oil Skid At El.100 Base Frame modification and Level Gauges	Must be released at contract award	1,690	1,230	1,230	1,230	Moved from base scope
Generator & Aux	NK38-SOW-42000-10002 5.0 (b)	Seal oil extraction fans	Must be released at contract award	183	127	127	127	Not Selected
Generator & Aux	NK38-SOW-42000-10002 2.5 (f)	air oil pumps	Must be released at contract award	437	399	399	399	Moved from base scope
Generator & Aux	NK38-SOW-42000-10002 2.1.2 U3	Stator Rewind Storage of Alstom Workshop	6 month notification			144		
Turbine & Aux	NK38-SOW-41000-10002 5.1 (a&b)	LP Blade Carrier Sealing Rings and Tapered Pins Modification (Optional)	18 months	1,521	891	891	891	Not Selected
Turbine & Aux	NK38-SOW-41000-10002 5.1 (a&b)	LP Blade Carrier On-Site Machining (Sealing Modification)	6 month notification	1,235	1,076	1,076	1,076	Not Selected
Turbine & Aux	NK38-SOW-41000-10002 5.1 (a&b)	LP Blade Carrier Off-Site Machining (Sealing Modification)	6 month notification	2,507	2,507	2,507	2,507	Not Selected
Turbine & Aux	NK38-SOW-41000-10002 5.1 (c)	LP Blade Carrier (New)(Left and Right)	18 months	14,609				To be Determined
Turbine & Aux	NK38-SOW-41000-10002 5.1 (c)	LP Blade Carrier (New)(Centre) - Additional Item & not in SOW Document	32 months	8,371				To be Determined
Turbine & Aux	NK38-SOW-41000-10002 5.4 (a)	Upgrade FRF Pumps to Axial Piston Pumps	18 months	1,022	629	629	629	To be Determined pending business case
Turbine & Aux	NK38-SOW-41000-10002 2.5.3.1 (b)	Upgrade Isolation Valves for Gland Steam Exhaust Fans	Must be released at contract award	218	170	170	170	Moved from base scope
Turbine & Aux	NK38-SOW-41000-10002 2.5.3.2 (a)	Upgrade LP Gland Supply Valve PCV24	Must be released at contract award	235	197	197	197	Moved from base scope
Turbine Controls	NK38-SOW-64100-10003 1.10.1	Base case EHC upgrade	Must be released at contract award	1,221	894	894	894	Moved from base scope
Turbine Controls	NK38-SOW-64100-10003 2.1.1	TGC Upgrade Option1	Must be released at contract award	1,643	1,196	1,196	1,196	Not selected
Turbine Controls	NK38-SOW-64100-10003 2.1.2	TGC Upgrade Option 2b	Must be released at contract award	1,382	1,073	1,073	1,073	Not selected
Turbine Controls	NK38-SOW-64100-10003 2.1.2	TGC Upgrade Option 2c	Must be released at contract award	1,375	1,100	1,100	1,100	Not selected
Turbine Controls	NK38-SOW-64100-10003 2.1.2	TGC Upgrade Option 2d	Must be released at contract award	1,583	1,196	1,196	1,196	Not selected
Turbine Controls	NK38-SOW-64100-10003 2.1.3	TGC Upgrade Option 3	Must be released at contract award	370	287	287	287	Not selected
MSR	NK38-SOW-41800-10002 2.	Engineering Study	To be advised	446				Moved from base scope

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Thermal Power Services

My Department

[Back to Base Scope Summary](#)

Worksheet 3

SOW	SOW Clause	Contingency Scope Summary	Lead Time	Fixed	Firm	Firm	Firm
				Unit 2 Price	Unit 1 Price	Unit 3 Price	Unit 4 Price
Turbine & Aux	NK38-SOW-41000-10002 3.1.4 (b)	SCC LP1+2+3 Rotor LH+RH row 4-6		4,073	3,668	3,668	3,668
Turbine & Aux	NK38-SOW-41000-10002 3.2.4 (b)	SCC HP Rotor LH+RH row 5-14		2,801	2,513	2,513	2,513
Subtotals				6,874	6,181	6,181	6,181

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

Back to Base Scope Summary													Total	1,937,897	1,859,839
Worksheet 4 Gen Specific SOW Spares													Subtotal	1,937,897	1,859,839
SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	U2 Recom'd QTY	Single price ea part. U 1/3/4	Single price ea part. U 2	U2 Total Price	U1 Total Price
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d	MEASUREMENT FLANGE ASS.	EARTH SHAFT COMPL	HTGG214743R0001	HTGG90997	74.00	W28	684218 3	1.00	1.00	8,222			
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d & 2.1.3 c	MEASUREMENT FLANGE ASS.	ROUND RUBBER RING	W 402978P0002	HTGG90997	77.00	W24	684221 4	1.00	1.00	52			
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d	MEASUREMENT FLANGE ASS.	HEXAGON HEAD SCREW	NB 312333P0412	HTGG90997	78.00	W22		6.00	6.00	1			
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d	MEASUREMENT FLANGE ASS.	PROTECTION STRIP	NB 336900P0278	HTGG90997	79.00	W22		3.00	3.00	124			
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d	MEASUREMENT FLANGE ASS.	DOWEL PIN	NB 338450P0565	HTGG90997	83.00	W26		1.00	1.00	400			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 c	GAS TEMP.GAUGES	DOUBLE RESISTANCE ELEMENT	HTGA401785P2200	HTGG691507	3.00	W23		4.00	4.00	1,186			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 c	GAS TEMP.GAUGES	TEMPERATURE GAUGE	HMG301746P0412	HTGG691507	5.00	W28		4.00	4.00	2,695			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 c	GAS TEMP.GAUGES	DOUBLE RESISTANCE ELEMENT	HTGA401785P2200	HTGG691507	3.00	W23		4.00	4.00	1,186			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 c	GAS TEMP.GAUGES	TEMPERATURE GAUGE	HMG301746P0412	HTGG691507	6.00	W28		4.00	4.00	2,598			
Generator & Aux	NK38-SOW-42000-10002	2.1.4.c	CARBON BRUSH	SPRING SUPPORT	GME9947233P0001	HTGG90863	18.00	W24		132.00	132.00	229			
Generator & Aux	NK38-SOW-42000-10002	2.1.4.d	BRUSH GEAR COMP	CONTACT BUSHING	HTGG408745P0001	HTGG90863	7.00	W28		44.00	44.00	200			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	HTGW302938P0001	HTGW 90519		W26		4.00	4.00	437			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	HTGW302938P0002	HTGW 90519		W26	372715 4	4.00	4.00	328			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	C 404336P0001	HTGW 90519		W26	203686 3	4.00	4.00	465			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	HTGW102792P0028	HTGW 90519		W22		8.00	8.00	37			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	HTGW404242P0001	HTGW 90519		W26	203683 4	8.00	8.00	78			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	O-RING SEAL	GMN 592004P1308	HTGW 90519	3.00	W24		8.00	8.00	123			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	GLUE	HIME455077P0001	HTGW 90519	3.00	W22		1.00	1.00	57			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	FELT PAD	HTGG212916P0005	HTGW 90519	22.00	W22		8.00	8.00	27			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	FELT PAD	HTGG212916P0006	HTGW 90519	23.00	W22		8.00	8.00	28			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	HEXAGON HEAD SCREW	NB 312333P0411	HTGW 90519	8.00	W22		12.00	5.00	1			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	HEXAGON HEAD SCREW	NB 312333P0410	HTGW 90519	34.00	W22		36.00	10.00	1			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	CONICAL SPRING WASHER	NB 336405P0027	HTGW 90519	9.00	W22		48.00	48.00	1			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	HEXAGON HEAD SCREW	NB 312433P0519	HTGW 90519	6.00	W24		120.00	30.00	35			
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	CONICAL SPRING WASHER	NB 336405P0032	HTGW 90519	7.00	W22		120.00	120.00	3			
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d	MEASUREMENT FLANGE ASS.	EARTH SHAFT COMPL	HTGG214743R0001	HTGG90997	74.00	W28	684218 3	1.00	1.00	8,222	8,557	8,557	8,222
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d & 2.1.3 c	MEASUREMENT FLANGE ASS.	ROUND RUBBER RING	W 402978P0002	HTGG90997	77.00	W24	684221 4	1.00	1.00	52	54	54	52
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d	MEASUREMENT FLANGE ASS.	HEXAGON HEAD SCREW	NB 312333P0412	HTGG90997	78.00	W22		6.00	6.00	1	1	7	7
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d	MEASUREMENT FLANGE ASS.	PROTECTION STRIP	NB 336900P0278	HTGG90997	79.00	W22		3.00	3.00	124	129	386	371
Generator & Aux	NK38-SOW-42000-10002	2.1.1.d	MEASUREMENT FLANGE ASS.	DOWEL PIN	NB 338450P0565	HTGG90997	83.00	W26		1.00	1.00	400	417	417	400
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	STATOR WIND. INSTALL	END WEDGES	GME8136081R0001	HTGG90988	11.00	W24		168.00	170.00	57	60	10,141	9,744
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	STATOR WIND. INSTALL	LOWER END WEDGES	GME8136081R0002	HTGG90988	11.00	W24		168.00	170.00	30	31	5,272	5,065
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	DOUBLE SHAPED WEDGE	SLOT UPPER KEY	HTGG305877P0002	HTGG90988	11.00	W24		5376.00	514.00	24	25	13,015	12,505
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	DOUBLE SHAPED WEDGE	SLOT LOWER WEDGE	HTGG305877P0013	HTGG90988	11.00	W24		5376.00	514.00	17	18	9,187	8,827
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	STATOR WIND. INSTALL	SLIDE STRIP	HTGG011892P0060	HTGG90988	154.00	W24		840.00	100.00	28	29	2,920	2,805
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	STATOR WIND. INSTALL	PROTECTION STRIP	HTGG011892P0054	HTGG90988	153.00	W24		168.00	168.00	93	97	16,238	15,602
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	DOUBLE SHAPED WEDGE	BASIC RESIN EP 03	NBT 401839P0003	HTGG90988	155.00	W24	328922 4	1.00	1.00	157	164	164	157
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	DOUBLE SHAPED WEDGE	HARDENER 30	NBT 401842P0006	HTGG90988	155.00	W24	328923 4	1.00	1.00	150	156	156	150
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	DOUBLE SHAPED WEDGE	SOLVENT ACETON 1	NBT 400407P9001	HTGG90988	155.00	W26		1.00	1.00	48	50	50	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2 j Unit 1&2	DOUBLE SHAPED WEDGE	TP 0,17X20-PETP GWB 2	HZN 450810P0020	HTGG90988	152.00	W22		10.00	10.00	10	11	109	104
Generator & Aux	NK38-SOW-42000-10002	2.1.2 k Unit 1&2	STATOR WIND. INSTALL	WEDGE SHIM	HTGG011892P0055	HTGG90988	12.00	W24		5376.00	168.00	5	5	913	878
Generator & Aux	NK38-SOW-42000-10002	2.1.2 k Unit 1&2	STATOR WIND. INSTALL	WEDGE SHIM	HTGG011892P0056	HTGG90988	13.00	W24		5376.00	168.00	5	5	876	841

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	U2 Recom'd QTY	Single price ea part. U 1/3/4	Single price ea part. U 2	U2 Total Price	U1 Total Price
Generator & Aux	NK38-SOW-42000-10002	2.1.2 k Unit 1&2	STATOR WIND. INSTALL	WEDGE SHIM	HTGG011892P0057	HTGG90988	14.00	W24		5376.00	168.00	5	5	913	878
Generator & Aux	NK38-SOW-42000-10002	2.1.2 k Unit 1&2	STATOR WIND. INSTALL	WEDGE SHIM	HTGG011892P0058	HTGG90988	15.00	W24		5376.00	168.00	5	5	913	878
Generator & Aux	NK38-SOW-42000-10002	2.1.2 k Unit 1&2	STATOR WIND. INSTALL	WEDGE SHIM	HTGG011892P0059	HTGG90988	16.00	W24		5376.00	168.00	3	4	609	585
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	TEFLON HOSE	HTGG129342R0001	HTGG90988	74.00	W32	201331 4	84.00	84.00	2,139	2,227	187,027	179,692
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	TEFLON HOSE	HTGG129342R0002	HTGG90988	75.00	W32	201332 4	84.00	84.00	2,073	2,158	181,266	174,157
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	INSUL. CAP STANDARD	HTGG129335P0003	HTGG90988	34.00	W24		60.00	60.00	2,815	2,930	175,773	168,880
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SLEEVE	HTGG129338R0001	HTGG90988	53.00	W24		12.00	12.00	4,000	4,163	49,957	47,998
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SLEEVE	HTGG129338R0002	HTGG90988	56.00	W24		12.00	12.00	4,000	4,163	49,957	47,998
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SUPPORT PLATE	HTGG213221P0001	HTGG90988	69.00	W24		36.00	2.00	1,741	1,812	3,625	3,482
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SUPPORT PLATE	HTGG213221P0002	HTGG90988	70.00	W24		12.00	1.00	964	1,004	1,004	964
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SUPPORT PLATE	HTGG213221P0003	HTGG90988	71.00	W28		12.00	1.00	1,852	1,927	1,927	1,852
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	WOVEN GLASS TAPE	NBT 401126P0014	HTGG90988	79.00	W26		630.00	630.00	4	4	2,563	2,463
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	POLYESTER MAT	HZN 450924P0960	HTGG90988	73.00	W22		16.00	16.00	289	301	4,817	4,628
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	BASIC RESIN EP 03	NBT 401839P0003	HTGG90988	44.00	W24	328922 4	3.00	3.00	157	164	492	472
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 30	NBT 401842P0006	HTGG90988	44.00	W24	328923 4	3.00	3.00	150	156	469	451
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SOLVENT ACETON 1	NBT 400407P9001	HTGG90988	44.00	W26		1.00	1.00	48	50	50	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	TEFLON HOSE	HTGG129342R0003	HTGG90988	76.00	W32	201335 4	84.00	84.00	2,095	2,180	183,141	175,959
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	TEFLON HOSE	HTGG129342R0004	HTGG90988	77.00	W32	201333 4	24.00	24.00	2,074	2,159	51,807	49,775
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	TEFLON HOSE	HTGG129342R0005	HTGG90988	78.00	W32	201336 4	12.00	12.00	2,073	2,158	25,895	24,880
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	TEFLON HOSE	HTGG129342R0006	HTGG90988	141.00	W32	201334 4	60.00	60.00	2,078	2,163	129,763	124,674
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	TEFLON HOSE	HTGG129342R0007	HTGG90988	142.00	W32	201337 4	12.00	12.00	2,078	2,163	25,953	24,935
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	INSUL. CAP STANDARD	HTGG129335P0003	HTGG90988	34.00	W24		72.00	72.00	2,815	2,930	210,927	202,656
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SLEEVE	HTGG129338R0003	HTGG90988	66.00	W24		12.00	12.00	2,981	3,102	37,230	35,770
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SLEEVE	HTGG129338R0004	HTGG90988	61.00	W24		12.00	12.00	4,000	4,163	49,957	47,998
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SUPPORT PLATE	HTGG213221P0001	HTGG90988	69.00	W24		24.00	2.00	1,741	1,812	3,625	3,482
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	WOVEN GLASS TAPE	NBT 401126P0014	HTGG90988	79.00	W26		750.00	750.00	4	4	3,052	2,932
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	POLYESTER MAT	HZN 450924P0960	HTGG90988	73.00	W22		20.00	20.00	289	301	6,021	5,785
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	BASIC RESIN EP 03	NBT 401839P0003	HTGG90988	44.00	W24	328922 4	6.00	6.00	157	164	983	945
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 30	NBT 401842P0006	HTGG90988	44.00	W24	328923 4	3.00	3.00	150	156	469	451
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SOLVENT ACETON 1	NBT 400407P9001	HTGG90988	44.00	W26		1.00	1.00	48	50	50	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	6KT SCREW	NB 312350P0363	HTGG90988	39.00	W22		84.00	10.00	84	88	876	842
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	WASHER	W 400883P0012	HTGG90988	38.00	W24		168.00	10.00	95	98	985	946
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	CLAMPING DISC	W 402199P0004	HTGG90988	37.00	W26		84.00	84.00	88	91	7,662	7,362
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	WOVEN GLASS TAPE	NBT 401832P0020	HTGG90988	49.00	W24		6.00	6.00	8	8	48	46
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	BASIC RESIN EP 03	NBT 401839P0003	HTGG90988	44.00	W24	328922 4	1.00	1.00	157	164	164	157
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 30	NBT 401842P0006	HTGG90988	44.00	W24	328923 4	1.00	1.00	150	156	156	150
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SOLVENT ACETON 1	NBT 400407P9001	HTGG90988	44.00	W26		1.00	1.00	48	50	50	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	BASIC RESIN SI 33	HZN 451428P0004	HTGG90988	50.00	W22		1.00	1.00	909	946	946	909
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 81	HZN 451429P0001	HTGG90988	50.00	W24		1.00	1.00	1,819	1,893	1,893	1,819
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GLAS FIBRE TIE	HZN 451586P0107	HTGG90988	41.00	W30		25.00	25.00	14	15	367	353
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	EPOXY RESIN COMP. EPE19A	HZN 451580R9001	HTGG90988	42.00	W26		1.00	1.00	89	93	93	89
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	EPOXY RESIN COMP. EPE19B	HZN 451581R9001	HTGG90988	42.00	W26		1.00	1.00	102	106	106	102
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	BASIC RESIN	HZN 451181P9001	HTGG90988	51.00	W26		8.00	8.00	193	201	1,606	1,543
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	VARNISH LL16	HIFE450018P0001	HTGG90988	45.00	W26		6.00	6.00	140	146	876	842
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 103	HIFE450021P0001	HTGG90988	45.00	W26		6.00	6.00	57	60	357	343
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GLASFIBRE CORD	NBT 401134P0002	HTGG90988	48.00	W30		100.00	100.00	3	3	325	312
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GLASS FABRIC TAPE	NBT 400140P0014	HTGG90988	43.00	W26		100.00	100.00	10	11	1,087	1,045
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GLASS FIBRE CORD	HZN 451586P0116	HTGG90988	41/1	W30		10.00	10.00	10	10	100	96
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	PL 20-FOAM KWE	HIME450337P0020	HTGG90988	54/67	W24		8.00	8.00	228	237	1,898	1,823

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	U2 Recom'd QTY	Single price ea part. U 1/3/4	Single price ea part. U 2	U2 Total Price	U1 Total Price
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	RESIN PUR 23	HIFE450084P9001	HTGG90988	46.00	W24		25.00	25.00	114	119	2,965	2,849
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 106	HIFE450085P9001	HTGG90988	46.00	W24		25.00	25.00	114	119	2,965	2,849
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GKT SCREW	NB 312350P0363	HTGG90988	39.00	W22		84.00	10.00	84	88	876	842
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	WASHER	W 400883P0012	HTGG90988	38.00	W24		168.00	10.00	95	98	985	946
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	CLAMPING DISC	W 402199P0004	HTGG90988	37.00	W26		84.00	84.00	88	91	7,662	7,362
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	WOVEN GLASS TAPE	NBT 401832P0020	HTGG90988	49.00	W24		6.00	6.00	8	8	48	46
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	BASIC RESIN EP 03	NBT 401839P0003	HTGG90988	44.00	W24	328922 4	1.00	1.00	157	164	164	157
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 30	NBT 401842P0006	HTGG90988	44.00	W24	328923 4	1.00	1.00	150	156	156	150
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	SOLVENT ACETON 1	NBT 400407P9001	HTGG90988	44.00	W26		1.00	1.00	48	50	50	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	BASIC RESIN SI 33	HZN 451428P0004	HTGG90988	50.00	W22		1.00	1.00	909	946	946	909
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 81	HZN 451429P0001	HTGG90988	50.00	W24		1.00	1.00	1,819	1,893	1,893	1,819
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GLAS FIBRE TIE	HZN 451586P0107	HTGG90988	41.00	W30		11.00	11.00	14	15	162	155
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	EPOXY RESIN COMP. EPE19A	HZN 451580R9001	HTGG90988	42.00	W26		1.00	1.00	89	93	93	89
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	EPOXY RESIN COMP. EPE19B	HZN 451581R9001	HTGG90988	42.00	W26		1.00	1.00	102	106	106	102
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	BASIC RESIN	HZN 451181P9001	HTGG90988	51.00	W26		8.00	8.00	193	201	1,606	1,543
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	VARNISH LL17	HIFE450019P0001	HTGG90988	45.00	W26		3.00	3.00	172	179	536	515
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 103	HIFE450021P0001	HTGG90988	45.00	W26		3.00	3.00	57	60	179	172
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GLASFIBRE CORD	NBT 401134P0002	HTGG90988	48.00	W30		100.00	100.00	3	3	325	312
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GLASS FABRIC TAPE	NBT 400140P0014	HTGG90988	43.00	W26		100.00	100.00	10	11	1,087	1,045
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	GLASS FIBRE CORD	HZN 451586P0116	HTGG90988	41/1	W30		10.00	10.00	10	10	100	96
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	PL 20-FOAM KWE	HIME450337P0020	HTGG90988	54/67	W24		8.00	8.00	228	237	1,898	1,823
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	RESIN PUR 23	HIFE450084P9001	HTGG90988	46.00	W24		25.00	25.00	114	119	2,965	2,849
Generator & Aux	NK38-SOW-42000-10002	2.1.2.1 Unit 1&2	END WIND. A. HOSE ORDERS	HARDENER 106	HIFE450085P9001	HTGG90988	46.00	W24		25.00	25.00	114	119	2,965	2,849
Generator & Aux	NK38-SOW-42000-10002	2.1.2.e Unit 1&2	STATOR WIND. INSTALL	ADD.PLATE COMP.	HTGG129238R0002	HTGG909852	22 / 9	W22		48.00	24.00	86	89	2,146	
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	ISOLATED THERMOCABLE	HTGG407030P0001	HTGG90998	78.00	W21		174.00	10.00	68	70	705	677
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	THERMOCOUPLE	HTGG306190R0005	HTGG90998	78.00	W24		181.00	10.00	804	837	8,373	8,045
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	ROUND RUBBER RING	W 404214P0001	HTGG90998	78.00	W28		174.00	10.00	9	10	99	95
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	CLAMPING DISC	NB 336407P0211	HTGG90998	78.00	W30	201971 4	696.00	40.00	5	6	222	214
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	HEXAGON HEAD SCREW	NB 312350P0260	HTGG90998	78.00	W22		696.00	5.00	1	1	7	7
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	SHRINK HOSE	HTGG011731P0045	HTGG90998	78.00	W24		100.00	100.00	4	5	463	445
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	BASIC RESIN EP 03	NBT 401839P0003	HTGG90998	78.00	W24	328922 4	1.00	1.00	157	164	164	157
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	HARDENER 30	NBT 401842P0006	HTGG90998	78.00	W24	328923 4	1.00	1.00	150	156	156	150
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	SOLVENT ACETON 1	NBT 400407P9001	HTGG90998	78.00	W26		1.00	1.00	48	50	50	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2.d Unit 1&2	THERMOCOUPLE INSTALLED	WOVEN GLASS TAPE	NBT 400139P0108	HTGG90998	78.00	W22		300.00	100.00	1	1	81	77
Generator & Aux	NK38-SOW-42000-10002	2.1.2.e Unit 1&2	STATOR READY FOR WINDING	LEAD-THROUGH PLATE	HTGG307188R0001	HTGG691507	18.00	W30		10.00	10.00	24,125	25,109	251,092	241,246
Generator & Aux	NK38-SOW-42000-10002	2.1.2.e Unit 1&2	STATOR READY FOR WINDING	SOCKET	GME0871474P0001	HTGG691507		W22		2100.00	2100.00	34	35	74,003	71,101
Generator & Aux	NK38-SOW-42000-10002	2.1.2.g Unit 1&2	EXPENDABLE MATERIAL	VARNISH LL16	HIFE450018P0001	HTGG90984	12.00	W26		1.00	1.00	140	146	146	140
Generator & Aux	NK38-SOW-42000-10002	2.1.2.g Unit 1&2	EXPENDABLE MATERIAL	HARDENER 103	HIFE450021P0001	HTGG90984	12.00	W26		1.00	1.00	57	60	60	57
Generator & Aux	NK38-SOW-42000-10002	2.1.2.h Unit 1&2	EXPENDABLE MATERIAL	BASIC RESIN EP 03	NBT 401839P0003	HTGG90984	12.00	W24	328922 4	1.00	1.00	157	164	164	157
Generator & Aux	NK38-SOW-42000-10002	2.1.2.h Unit 1&2	EXPENDABLE MATERIAL	HARDENER 30	NBT 401842P0006	HTGG90984	12.00	W24	328923 4	1.00	1.00	150	156	156	150
Generator & Aux	NK38-SOW-42000-10002	2.1.2.h Unit 1&2	EXPENDABLE MATERIAL	SOLVENT ACETON 1	NBT 400407P9001	HTGG90984	12.00	W26		1.00	1.00	48	50	50	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2.h Unit 1&2	EXPENDABLE MATERIAL	INSULATION MATERIAL	NBT 401122P0102	HTGG90984	12.00	W32	201329 4	700.00	700.00	1	1	794	763
Generator & Aux	NK38-SOW-42000-10002	2.1.2.h Unit 1&2	EXPENDABLE MATERIAL	INSULATION MATERIAL	NBT 401122P0106	HTGG90984	12.00	W26	684843 4	700.00	700.00	1	1	874	840
Generator & Aux	NK38-SOW-42000-10002	2.1.2.h Unit 1&2	EXPENDABLE MATERIAL	INSULATION MATERIAL	NBT 401122P0114	HTGG90984	12.00	W24	684839 3	1.00	1.00	250	261	261	250
Generator & Aux	NK38-SOW-42000-10002	2.1.2.h Unit 1&2	EXPENDABLE MATERIAL	FILLER 15	HZN 451186P9001	HTGG90984	12.00	W24		1.00	1.00	1	1	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2.i Unit 1&2	EXPENDABLE MATERIAL	INSULATION MATERIAL	NBT 401122P0114	HTGG90984	12.00	W24	671002 4	1.00	1.00	250	261	261	250
Generator & Aux	NK38-SOW-42000-10002	2.1.2.i Unit 1&2	STATOR WIND. INSTALL	VARNISH LL16	HIFE450018P0001	HTGG90998	64.00	W26		2.00	2.00	140	146	292	281
Generator & Aux	NK38-SOW-42000-10002	2.1.2.i Unit 1&2	STATOR WIND. INSTALL	HARDENER 103	HIFE450021P0001	HTGG90998	64.00	W26	685221 4	2.00	2.00	57	60	119	114

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SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	U2 Recom'd QTY	Single price ea part. U 1/3/4	Single price ea part. U 2	U2 Total Price	U1 Total Price
Generator & Aux	NK38-SOW-42000-10002	2.1.2. i Unit 1&2	STATOR WIND. INSTALL	GLASS CORD	NBT 401134P0005	HTGG90988	55.00	W24	668641 4	50.00	50.00	16	17	830	798
Generator & Aux	NK38-SOW-42000-10002	2.1.2. i Unit 1&2	STATOR WIND. INSTALL	BASIC RESIN EP D3	NBT 401839P0003	HTGG90988	55.00	W24	328922 4	2.00	2.00	157	164	328	315
Generator & Aux	NK38-SOW-42000-10002	2.1.2. i Unit 1&2	STATOR WIND. INSTALL	HARDENER 30	NBT 401842P0006	HTGG90988	55.00	W24	8923 4 EP1	2.00	2.00	150	156	313	301
Generator & Aux	NK38-SOW-42000-10002	2.1.2. i Unit 1&2	STATOR WIND. INSTALL	SOLVENT ACETON 1	NBT 400407P9001	HTGG90988	55.00	W26		2.00	2.00	48	50	99	95
Generator & Aux	NK38-SOW-42000-10002	2.1.2. i Unit 1&2	STATOR WIND. INSTALL	PTFE-SLIDING AGENT	GMN 598026P0351	HTGG90988	67.00	W24		1.00	1.00	492	512	512	492
Generator & Aux	NK38-SOW-42000-10002	2.1.2. i Unit 1&2	STATOR WIND. INSTALL	TENSION SPRING	MGT 304446P0003	HTGG90988	51.00	W24		192.00	10.00	366	381	3,806	3,657
Generator & Aux	NK38-SOW-42000-10002	2.1.2.e Unit 1&2	STATOR READY FOR WINDING	GASKET	W 205112P0002	HTGG691507	20.00	W20		10.00	10.00	48	50	503	484
Generator & Aux	NK38-SOW-42000-10002	2.1.7 c	GAS TEMP.GAUGES	DOUBLE RESISTANCE ELEMENT	HTGA401785P2200	HTGG691507	3.00	W23		4.00	4.00	1,186	1,235	4,939	4,745
Generator & Aux	NK38-SOW-42000-10002	2.1.7 c	GAS TEMP.GAUGES	TEMPERATURE GAUGE	HMG7301746P0412	HTGG691507	5.00	W28		4.00	4.00	2,695	2,805	11,221	10,781
Generator & Aux	NK38-SOW-42000-10002	2.1.7 c	GAS TEMP.GAUGES	DOUBLE RESISTANCE ELEMENT	HTGA401785P2200	HTGG691507	3.00	W23		4.00	4.00	1,186	1,235	4,939	4,745
Generator & Aux	NK38-SOW-42000-10002	2.1.7 c	GAS TEMP.GAUGES	TEMPERATURE GAUGE	HMG7301746P0431	HTGG691507	6.00	W28		4.00	4.00	2,598	2,704	10,816	10,392
Generator & Aux	NK38-SOW-42000-10002	2.1.4.c	CARBON BRUSH	SPRING SUPPORT	GME9947233P0001	HTGG90863	18.00	W24		132.00	132.00	229	238	31,445	30,212
Generator & Aux	NK38-SOW-42000-10002	2.1.4.d	BRUSH GEAR COMP	CONTACT BUSHING	HTGG408745P0001	HTGG90863	7.00	W28		44.00	44.00	200	209	9,179	8,819
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	HTGW302938P0001	HTGW 90519	-	W26		4.00	4.00	437	455	1,820	1,749
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	HTGW302938P0002	HTGW 90519	-	W26	372715 4	4.00	4.00	328	341	1,365	1,312
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	C 404336P0001	HTGW 90519	-	W26	203686 3	4.00	4.00	465	484	1,936	1,860
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	HTGW102792P0028	HTGW 90519	-	W22		8.00	8.00	37	38	308	296
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	PIPE ASSEMBLY	GASKET	HTGW404242P0001	HTGW 90519	-	W26	203683 4	8.00	8.00	78	81	650	625
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	O-RING SEAL	GMN 592004P1308	HTGW 90519	3.00	W24		8.00	8.00	123	128	1,026	986
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	GLUE	HIME455077P0001	HTGW 90519	3.00	W22		1.00	1.00	57	60	60	57
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	FELT PAD	HTGG212916P0005	HTGW 90519	22.00	W22		8.00	8.00	27	28	226	217
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	FELT PAD	HTGG212916P0006	HTGW 90519	23.00	W22		8.00	8.00	28	29	234	224
Generator & Aux	NK38-SOW-42000-10002	2.1.7 d	COOLERS INSTALLED	HEXAGON HEAD SCREW	NB 312333P0411	HTGW 90519	8.00	W22		12.00	5.00	1	1	3	3

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Worksheet 5 Gen Recomm Spares											
SOW Package	SOW Doc #	SOW Reference	Description of higher level Item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY
Generator & Aux	NK38-SOW-42000-10002	2.1.1. e	LEAD IN STUD ASS.	GUIDE PIPE	HTGG412000R0001	HTGG90997	43	W28		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.1. e	LEAD IN STUD ASS.	GUIDE PIPE	HTGG412000R0002	HTGG90997	43	W28		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.1. e	LEAD IN STUD ASS.	ROUND RUBBER RING	HTGG131681P0006	HTGG90997	24	W22		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.1. e	LEAD IN STUD ASS.	PROTECTION STRIP	HTGG308209P0001	HTGG90997	44	W22		8	8
Generator & Aux	NK38-SOW-42000-10002	2.1.1. e	LEAD IN STUD ASS.	SPECIAL GREASE 1	NBT 400055P0001	HTGG90997		W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	ISOLATING SEGMENT	HTGG308356P0001	HTGG90989		W28		32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	ISOLATING SEGMENT	HTGG308356P0002	HTGG90989		W28		8	8
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	ISOLATING SEGMENT	HTGG308356P0003	HTGG90989		W28		8	8
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	ISOLATING SEGMENT	HTGG308356P0004	HTGG90989		W28		32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	ISOLATING SEGMENT	HTGG308356P0005	HTGG90989		W28		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	ISOLATING SEGMENT	HTGG308356P0006	HTGG90989		W28		32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	INSULATION	HTGG308356P0007	HTGG90989		W28		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	INSULATION	HTGG308356P0008	HTGG90989		W28		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	ADHESIVE TAPE	GMN 590755P1190	HTGG90989		W22		6	6
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	GLASS FIBRE RESIN TAPE	NBT 402925P0010	HTGG90989		W22		50	50
Generator & Aux	NK38-SOW-42000-10002	2.1.1.f	ROTOR READY FOR WINDING	PTFE-SLIDING AGENT	GMN 598026P0351	HTGG90989		W24		6	6
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	ROTOR READY FOR WINDING	BOLT	HTGG129351P0002	HTGG90997	49	W28		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	ROTOR READY FOR WINDING	BOLT	HTGG129351P0001	HTGG90997	61	W28		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	ROTOR READY FOR WINDING	INSULATING TUBE	HTGG412292P0002	HTGG90997	51	W30		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	ROTOR READY FOR WINDING	INSULATING TUBE	HTGG412292P0001	HTGG90997	50	W30		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	ROTOR READY FOR WINDING	COTTER	GMN 338152P4574	HTGG90997	60	W26		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	ROTOR READY FOR WINDING	INSULATOR	HTGG412291P0001	HTGG90997	54	W30		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	ROTOR READY FOR WINDING	ROUND RUBBER RING	W 404180P0006	HTGG90997	52	W28		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	ROTOR READY FOR WINDING	ROUND RUBBER RING	W 404180P0005	HTGG90997	53	W28		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	SLIP RING CONNECTION	PIN	HTGG407359P0001	HTGG90997	2	W28		16	2
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	SLIP RING CONNECTION	STRESS BOLT	HTGG407450P0001	HTGG90997	71	W28		56	5
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	SLIP RING CONNECTION	LOCK WASHER	NB 336900P2479	HTGG90997	72	W22		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 c	SLIP RING CONNECTION	SAFETY SHEET	NB 336850P2095	HTGG90997	73	W24		48	48
Generator & Aux	NK38-SOW-42000-10002	3.1.3 d		SEAL RING	W 404180P0002	HTGD90282	11	W30		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 d		SEAL RING	W 404180P0001	HTGD90282	10	W30		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 d		TITE SEAL	GMN 598019P1013	HTGD90282	12	W30		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 d		GASKET	NBT 400289P0030	HTGD90282	13	W24		3	3
Generator & Aux	NK38-SOW-42000-10002	3.1.3 d		SEAL RING	HAGT439558P0036			W24		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.3 d		SEAL RING	HAGT439558P0037			W24		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 d		SEAL RING	HAGT439558P0041			W24		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 d		GASKET	NBT 400289P0013			W26		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		ISOLATION	HTGG011801P0001	HTGG90989		W20		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		ISOLATION	HTGG011801P0002			W20		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		ADHESIVE TAPE	GMN 590755P1190			W26		2	3
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		MICA ISOLATION	W 208910R0004			W24		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		MICA ISOLATION	W 208910R0005			W24		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		SHRINK RING	HTGG407357P0001			W30		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		SHRINK RING	HTGG407357P0002			W30		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		SLIP RING	HMG127338P0003			W30		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		FAN - SUPPORT	HMG1304902P0002			W30		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		SLIP RING	HMG127338P0004			W30		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		STRIP	NBT 401128P0105			W26		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		GLASFIBRE CORD	NBT 401134P0002			W30		8	8

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SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		WOVEN GLASS TAPE	NBT 401126P0017			W26		480	480
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		STRIP	NBT 402287P0110			W20		50	50
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		PAINT	NBT 401834R0001			W22		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		ENAMEL	HZN 451564R0001			W20		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b		FIBER GLASS TAPE	HTCM444278P0015			W24		20	30
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b	SLIP RING SHAFT COM.L	SELF-ADHENSIVE TAPE	HTCM444278P0016			W20		9	20
Generator & Aux	NK38-SOW-42000-10002	3.1.3 B	SLIP RING SHAFT COM.L	INSULATION Strip	HTCM444278P0018			W30		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b	SLIP RING SHAFT COM.L	COVER STRIP	HTGG414402P0001			W30		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b	SLIP RING SHAFT COM.L	BASIC RESIN EP 03	NBT 401839P0003			W24		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b	SLIP RING SHAFT COM.L	HARDENER 30	NBT 401842P0006			W24		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.3 b	SLIP RING SHAFT COM.L	SOLVENT ACETON 1	NBT 400407P9001			W26		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	SCHWERT	HTGG131822R0001	HTGG90989		W24		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	SCHWERT	HTGG131822R0002	HTGG90989		W24		6	6
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	DISTANZRINGSEGMENT	HTGG131822P0003	HTGG90989		W24		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	DISTANZRINGSEGMENT	HTGG131822P0004	HTGG90989		W24		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	DISTANZRINGSEGMENT	HTGG131822P0005	HTGG90989		W24		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	AXIAL-DISTANZSTUECK	HTGG131822P0006	HTGG90989	50	W24		32	32
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	AXIAL-DISTANZSTUECK	HTGG131822P0007	HTGG90989	50	W24		32	32
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	AXIAL-DISTANZSTUECK	HTGG131822P0008	HTGG90989	50	W24		24	24
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	AXIAL-DISTANZSTUECK	HTGG131822P0009	HTGG90989	50	W24		8	8
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	REITER	HTGG412295R0001	HTGG90989		W24		8	8
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	ENDDISTANZSTUECK NS	HTGG131829R0001	HTGG90989		W28		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	ENDDISTANZSTUECK NS	HTGG131829R0002	HTGG90989		W28		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	ENDDISTANZSTUECK NS	HTGG131829R0003	HTGG90989		W28		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	ENDDISTANZSTUECK NS	HTGG131829R0004	HTGG90989		W28		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	ENDDISTANZSTUECK AS	HTGG131829P0005	HTGG90989		W28		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	TANG.-DISTANZSTUECK	HTGG131823R0001	HTGG90989	55	W28		20	20
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	TANG.-DISTANZSTUECK	HTGG131823R0002	HTGG90989	55	W28		20	20
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	TANG.-DISTANZSTUECK	HTGG131823P0004	HTGG90989	55	W28		20	20
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	TANG.-DISTANZSTUECK	HTGG131823P0005	HTGG90989	55	W28		20	20
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	TANG.-DISTANZSTUECK	HTGG131823P0006	HTGG90989	55	W28		40	40
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	VERSCHLUSSSTUECK	HTGG308360R0001	HTGG90989		W28		8	8
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	VERSCHLUSSSTUECK	HTGG308360R0002	HTGG90989		W28		8	8
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	LEISTE	HTGG214561R0001	HTGG90989		W28		16	16
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	GLASS FIBRE RESIN TAPE	NBT 402925P0010	HTGG90989		W22		50	50
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	INNENDISTANZSTUECK NS	HTGG131851R0002	HTGG90989		W28		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	INNENDISTANZSTUECK AS	HTGG131851R0001	HTGG90989		W28		6	6
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	DRUCKSTUECK	HTGG131851P0007	HTGG90989		W24		16	16
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	SPANNPLATTE	HTGG131851P0008	HTGG90989		W24		16	16
Generator & Aux	NK38-SOW-42000-10002	3.1.1 a	ROTOR READY FOR WINDING	RUBBER SPRING	HTGG409706P0001	HTGG90989		W24		16	16
Generator & Aux	NK38-SOW-42000-10002	3.1.9 a	SHAFT SEALING RING	SHAFT SEALING RING	HTGG129640R0001			W36		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 a	SHAFT SEALING RING	SHAFT SEALING RING	HTGG129641R0001			W36		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 a	SHAFT SEALING RING	SHAFT SEAL RINGS	HTGG129642R0001			W36		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 a	SHAFT SEALING RING	SHAFT SEAL RINGS	HTGG129643R0001			W36		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	ROUND RUBBER SEAL	GME0944241R0001	HTGG 90853	7	W24	649199 3	75	75
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	SEALING COMPOUND	GMN 598019P1013	HTGG 90853	8	W30		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	SUPER GLUE	HIME455077P0001	HTGG 90853		W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	LOCKING SCREW	GMN 314253P0549	-		W28		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	SPECIAL GREASE	NBT 400055P0001	-		W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	GASKET	NBT 400289P0023	-		W24	197443 3	2	2

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	T-PIECE	GME2944028R0001	HTGG 90853	8	W24	203907 4	8	8
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0001	HTGG 90854	86	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0002	HTGG 90854	58	W26	203911 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0003	HTGG 90854	59	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0004	HTGG 90854	86	W26	203913 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0005	HTGG 90854	87	W26	203914 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	RUBBER LIP SEAL	W 403350P0001	HTGG 90854	64	W22	203928 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0001	HTGG 90854	86	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0002	HTGG 90854	58	W26	203911 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0003	HTGG 90854	59	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0004	HTGG 90854	86	W26	203913 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG129655R0005	HTGG 90854	87	W26	203914 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	RUBBER LIP SEAL	W 403350P0001	HTGG 90854	64	W22	203928 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	BUSHING CASING	ROUND RUBBER SEAL	GME0944241R0001	HTGG 90848	45	W24	649199 3	3	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	BUSHING CASING	GLUE	HIME455077P0001	HTGG 90848	45	W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	BUSHING CASING	HEXAGON HEAD SCREW	NB 312433P0517	HTGG 90848	46	W22		32	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	BUSHING CASING	CONICAL SPRING WASHER	NB 336405P0032	HTGG 90848	47	W22		32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	END HOUSING NDE MACH.	ROUND RUBBER SEAL	GME0944241R0001	HTGG 90984	16	W24	649199 3	3	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	END HOUSING NDE MACH.	GLUE	HIME455077P0001	HTGG 90984	16	W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	END HOUSING NDE MACH.	HEXAGON HEAD SCREW	NB 312433P0517	HTGG 90984	15	W22		32	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	END HOUSING NDE MACH.	CONICAL SPRING WASHER	NB 336405P0032	HTGG 90984	14	W22		32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	ROTOR READY FOR WINDING	ROUND RUBBER RING	W 404180P0006	HTGG691511	52	W28		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	ROTOR READY FOR WINDING	ROUND RUBBER RING	W 404180P0005	HTGG691511	53	W28		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	PLATE	GME0016284P0002	-		W22		3	3
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING RING HALVE	W 208913P0002	HTGG691511	15	W22	203900 3	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING RING HALVE	W 208913P0003	HTGG691511	16	W22	203901 3	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING RING HALVE	W 208913P0004	HTGG691511	17	W24	203902 3	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING RING HALVE	W 208913P0005	HTGG691511	18	W22	203903 3	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING SEGMENT	HMG1405376P0001	HTGG691511	19	W22		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	RUBBER PROFILE	HTCM453824P0001	HTGG691511	26	W30		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	GLUE	HIME455077P0001	HTGG691511	26	W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	BASIC RESIN EP 03	NBT 401839P0003	HTGG691511	25	W24	328922 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	HARDENER 30	NBT 401842P0006	HTGG691511	25	W24	328923 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	SOLVENT ACETON 1	NBT 400407P9001	HTGG691511	25	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	WIPER	HMG1405377P0001	HTGG691511	20	W30		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	OIL WIPER	WIPER RING, TWO PARTS	HMG1304903R0004	HTGG691511	21	W36	203892 3	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	OIL WIPER	WIPER RING, TWO PARTS	HMG1304903R0003	HTGG691511	22	W32		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	OIL WIPER	STOP SCREW	NB 315900P0008	HTGG691511	55	W26		16	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	OIL WIPER	DOWEL PIN	NB 338450P0461	HTGG691511	54	W30		4	4
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HALF RING UPPER PART ASS.	HTGG129710P0003	HTGG 90854	91	W36	203919 3	2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HALF RING UPPER PART ASS.	HTGG129710P0004	HTGG 90854	92	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HALF RING UPPER PART ASS.	HTGG129710P0005	HTGG 90854	89	W36	203919 3	2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HALF RING UPPER PART ASS.	HTGG129710P0006	HTGG 90854	90	W36	203918 3	1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	SCREW W.HEXAGONAL REC.HOL	NB 315835P0413	HTGG 90854	88	W28		8	4
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	WASHER	NB 335220P1124	HTGG 90854	44	W30		8	5
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	CONICAL SPRING WASHER	NB 336405P0030	HTGG 90854	83	W22		8	8
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	TAPER PIN	GMN 338417P0109	HTGG 90854	72	W22		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HEXAGONAL NUT	NB 332600P0112	HTGG 90854	121	W22		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	WASHER	NB 335050P0308	HTGG 90854	122	W22		2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	STOP SCREW	D 430468P0001	HTGG 90854	94	W22		12	12

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	HALF RING UPPER PART ASS.	HTGG129710P0003	HTGG 90854	91	W36	203919 3	3	3
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	HALF RING UPPER PART ASS.	HTGG129710P0004	HTGG 90854	92	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	HALF RING UPPER PART ASS.	HTGG129710P0005	HTGG 90854	89	W36	203919 3	3	3
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	HALF RING UPPER PART ASS.	HTGG129710P0006	HTGG 90854	90	W36	203918 3	1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	STOP SCREW	D 430468P0001	HTGG 90854	94	W22		16	16
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HALF RING UPPER PART ASS.	HTGG129710P0003	HTGG 90854	91	W36	203919 3	2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HALF RING UPPER PART ASS.	HTGG129710P0004	HTGG 90854	92	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HALF RING UPPER PART ASS.	HTGG129710P0005	HTGG 90854	89	W36	203919 3	2	2
Generator & Aux	NK38-SOW-42000-10002	3.1.9 b	OIL WIPER AIR SIDE	HALF RING UPPER PART ASS.	HTGG129710P0006	HTGG 90854	90	W36	203918 3	1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	HALF RING UPPER PART ASS.	HTGG129710P0003	HTGG 90854	91	W36	203919 3	3	3
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	HALF RING UPPER PART ASS.	HTGG129710P0004	HTGG 90854	92	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	HALF RING UPPER PART ASS.	HTGG129710P0005	HTGG 90854	89	W36	203919 3	3	3
Generator & Aux	NK38-SOW-42000-10002	3.1.9 c	OIL WIPER GAS SIDE	HALF RING UPPER PART ASS.	HTGG129710P0006	HTGG 90854	90	W36	203918 3	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	OIL SCRAP GAS SIDE D=752	STOP SCREW	D 430468P0001	HTGG 90854	94	W22		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0060	HTGG 90854	16	W28		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0061	HTGG 90854	85	W28		20	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING WASHER	W 126113P0003	HTGG 90854	15	W24		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING WASHER	NBT 400048P0616	HTGG 90854	35	W22		40	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0060	HTGG 90854	16	W28		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0061	HTGG 90854	85	W28		20	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING WASHER	W 126113P0003	HTGG 90854	15	W24		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING WASHER	NBT 400048P0616	HTGG 90854	35	W22		40	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	W 007541P0031	HTGG 90515	36	W24		48	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	INSULATING TUBE	W 007541P0032	HTGG 90515	37	W24		14	14
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	INSULATING WASHER	W 402727P0014	HTGG 90515	38	W24	486956 3	48	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	INSULATING WASHER	W 402727P0012	HTGG 90515	39	W22	486953 4	28	28
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	INSULATING SEGMENT	W 404321P0001	HTGG 90515	15	W24		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	INSULATING SEGMENT	W 007541P0008	HTGG 90515	13	W24		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	INSULATING SEGMENT	W 007541P0009	HTGG 90515	14	W24		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	INSULATING PLATE	HTGG128242P0002	HTGG 90515	55	W22		6	6
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE DE F. DIFF.	INSULATING WASHER	W 402727P0009	HTGG 90515	56	W22	203857 3	24	24
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE DE F. DIFF.	INSULATING TUBE	HTGG128242P0010	HTGG 90515	57	W24		24	24
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE DE F. DIFF.	HEXAGON HEAD SCREW	NB 312433P0415	HTGG 90515	58	W24		24	12
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE DE F. DIFF.	WASHER	NB 335450P0012	HTGG 90515	60	W30		24	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE DE F. DIFF.	CONICAL SPRING WASHER	NB 336405P0027	HTGG 90515	61	W22		24	24
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE DE F. DIFF.	HEXAGON HEAD SCREW	NB 312433P0465	HTGG 90515	59	W22		12	6
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE DE F. DIFF.	CONICAL SPRING WASHER	NB 336405P0030	HTGG 90515	62	W22		12	12
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	INSULATING TUBE	W 007541P0031	HTGG 90515	36	W24		48	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	INSULATING TUBE	W 007541P0032	HTGG 90515	37	W24		14	14
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	INSULATING WASHER	W 402727P0014	HTGG 90515	38	W24	486956 3	48	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	INSULATING WASHER	W 402727P0012	HTGG 90515	39	W22	486953 4	28	28
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	INSULATING SEGMENT	W 404321P0001	HTGG 90515	15	W24		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	INSULATING SEGMENT	W 007541P0008	HTGG 90515	13	W24		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	INSULATING SEGMENT	W 007541P0009	HTGG 90515	14	W24		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE NDE.F.DIFF.	INSULATING PLATE	HTGG128242P0002	HTGG 90515	55	W22		6	6
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE NDE.F.DIFF.	INSULATING WASHER	W 402727P0009	HTGG 90515	56	W22	203857 3	24	24
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE NDE.F.DIFF.	INSULATING TUBE	HTGG128242P0010	HTGG 90515	57	W24		24	24
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE NDE.F.DIFF.	HEXAGON HEAD SCREW	NB 312433P0415	HTGG 90515	58	W24		12	6
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE NDE.F.DIFF.	WASHER	NB 335450P0012	HTGG 90515	60	W30		12	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE NDE.F.DIFF.	CONICAL SPRING WASHER	NB 336405P0027	HTGG 90515	61	W22		24	24

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Master Pricing Tables
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SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE NDE.F.DIFF.	HEXAGON HEAD SCREW	NB 312433P0465	HTGG 90515	59	W22		12	6
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPORT PIPE NDE.F.DIFF.	CONICAL SPRING WASHER	NB 336405P0030	HTGG 90515	62	W22		12	12
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP ORIFICE CPL.	ADJUSTMENT	HTGG212717P0016	HTGG 90937	14	W24		6	7
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP ORIFICE CPL.	GLUE	HIME455077P0001	HTGG 90937	45	W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP ORIFICE CPL.	SPECIAL GREASE 1	NBT 400055P0001	HTGG 90937	15	W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP ORIFICE CPL.	GLASFIBRE CORD	NBT 401134P0002	HTGG 90937	16	W30		10	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP ORIFICE CPL.	BASIC RESIN EP 03	NBT 401839P0003	HTGG 90937	17	W24	328922 4	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP ORIFICE CPL.	HARDENER 30	NBT 401842P0006	HTGG 90937	17	W24	28923 4 EP15	1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP ORIFICE CPL.	SOLVENT ACETON 1	NBT 400407P9001	HTGG 90937	17	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP BUFFLE PRE INSTALLED	TREATH BAR	HTGG212717P0006	HTGG 90937	10	W28		32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP BUFFLE PRE INSTALLED	SQUARE NUT	W 404658P0009	HTGG 90937	11	W22		32	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP BUFFLE PRE INSTALLED	DOWEL PIN	HTGG305264P0004	HTGG 90937	12	W24	652748 3	16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP BUFFLE PRE INSTALLED	DOWEL PIN	HTGG305264P0001	HTGG 90937	13	W22	652749 3	32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	AIR GAP BUFFLE PRE INSTALLED	INSERT RING SEGMENT	HTGG212717P0010	HTGG 90937	6	W28		18	18
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	PL 1.0-HGW 37.5	NBT 401122P0168			W24		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	EXPENDABLE MATERIAL	PL 1.5 HGW 37.5	NBT 401122P0170			W28		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	ROTOR READY FOR WINDING	INSULATING TUBE	HTGG412292P0002	HTGG691511	51	W30		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	ROTOR READY FOR WINDING	INSULATOR	HTGG412291P0001	HTGG691511	54	W30		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	ROTOR READY FOR WINDING	INSULATING TUBE	HTGG412292P0001	HTGG691511	50	W30		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	ROTOR READY FOR WINDING	COTTER	GMN 338152P4574	HTGG691511	60	W26		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	MEASUREMENT FLANGE ASS.	ROUND RUBBER RING	W 402978P0010	HTGG691511	76	W22		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	MEASUREMENT FLANGE ASS.	PROTECTION SHEET	NB 336900P0287	HTGG691511	79	W22		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	MEASUREMENT FLANGE ASS.	HEXAGON HEAD SCREW	NB 312333P0413	HTGG691511	78	W22		8	8
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING TUBE	HTGG011261P0021	HTGG691511	24	W28		64	64
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING TUBE	HTGG011261P0022	HTGG691511	23	W28		32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING WASHER	HTGG406306P0001	HTGG691511	34	W22		64	64
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	INSULATING WASHER	HTGG406306P0002	HTGG691511	35	W22	203897 4	32	32
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	CONICAL SPRING WASHER	NB 336405P0026	HTGG691511	36	W22		64	64
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	CLAMPING DISC	NB 336405P0028	HTGG691511	39	W22		128	128
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	CONICAL SPRING WASHER	NB 336405P0030	HTGG691511	45	W22		34	34
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	WASHER	NB 335050P0109	HTGG691511	36	W22		64	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	WASHER	NB 335200P0021	HTGG691511	37	W22		32	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	HEXAGON HEAD SCREW	NB 312333P0362	HTGG691511	41	W22		34	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	HEXAGON HEAD SCREW	NB 312333P0412	HTGG691511	42	W22		72	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	HEXAGON HEAD SCREW	NB 312333P0414	HTGG691511	43	W22		64	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SLIP RING COVER ASSE.	HEXAGON HEAD SCREW	NB 312433P0416	HTGG691511	44	W22		10	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	SCREW W.HEXAGONAL REC.HOL	NB 315857P0633	HTGG 90854	14	W24		16	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEX SOCKET HEAD SCREW	NB 315856P0517	HTGG 90854	62	W24		3	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	SCREW W.HEXAGONAL REC.HOL	NB 315857P0518	HTGG 90854	120	W22		25	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	ALLEN SCREW	NB 315857P0467	HTGG 90854	65	W24		20	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEX SOCKET HEAD SCREW	NB 315857P0472	HTGG 90854	82	W22		20	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	WASHER	HTGG407895P0001	HTGG 90854	17	W32		16	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	WASHER	NB 335450P0014	HTGG 90854	84	W30		20	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	CONICAL SPRING WASHER	NB 336406P0010	HTGG 90854	18	W22		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	CONICAL SPRING WASHER	NB 336405P0030	HTGG 90854	83	W22		40	40
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	TOOTHED LOCK WASHER	NB 336180P0118	HTGG 90854	67	W32	661458 4	28	28
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	DOWEL PIN	W 126113P0012	HTGG 90854	12	W24		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	SCREW W.HEXAGONAL REC.HOL	NB 315857P0633	HTGG 90854	14	W24		16	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEX SOCKET HEAD SCREW	NB 315856P0517	HTGG 90854	62	W24		3	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	SCREW W.HEXAGONAL REC.HOL	NB 315857P0518	HTGG 90854	120	W22		25	10

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Master Pricing Tables
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SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	ALLEN SCREW	NB 315857P0467	HTGG 90854	65	W24		20	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEX SOCKET HEAD SCREW	NB 315857P0472	HTGG 90854	82	W22		20	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	WASHER	HTGG407895P0001	HTGG 90854	17	W28		16	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	WASHER	NB 335450P0014	HTGG 90854	84	W30		20	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	CONICAL SPRING WASHER	NB 336406P0010	HTGG 90854	18	W22		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	CONICAL SPRING WASHER	NB 336405P0030	HTGG 90854	83	W22		40	40
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	TOOTHED LOCK WASHER	NB 336180P0118	HTGG 90854	67	W32	661458 4	28	28
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	DOWEL PIN	W 126113P0012	HTGG 90854	12	W24		2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	LOCKING SCREW	W 126113P0015	HTGG 90854	11	W28		8	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	JACKING BOLT	W 126113P0006	HTGG 90854	10	W28		4	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	JACKING SCREW	HMG211396P0010	HTGG 90854	109	W28		4	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	LIFTING SLEEVE	HMG211396P0008	HTGG 90854	12	W28		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SEALING CASING MACHINED	EXPANSION BOLT	HTGG212850P0001	HTGG 90854	5	W28		12	6
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SEALING CASING MACHINED	HEXAGON SOCKET HEAD NUT	TGD 327809P0001	HTGG 90854	5	W22		12	6
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	WASHER	W 402199P0012	HTGG 90515	32	W22	654137 3	48	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	LOCK WASHER	W 007541P0025	HTGG 90515	30	W24		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	LOOK WIRE	W 007541P0026	HTGG 90515	16	W30		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	HEXAGONAL NUT	NB 332600P0514	HTGG 90515	28	W22		14	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	HEXAGON HEAD SCREW	NB 312450P0468	HTGG 90515	26	W24		48	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	HEXAGON HEAD SCREW	NB 312450P0418	HTGG 90515	25	W24		14	7
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	HEXAGON HEAD SCREW	NB 312350P0412	HTGG 90515	24	W24	654144 3	24	12
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	CONICAL SPRING WASHER	W 402199P0007	HTGG 90515	35	W28	654145 3	38	38
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	CONICAL SPRING WASHER	W 402199P0010	HTGG 90515	34	W24	649540 4	48	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	WASHER	W 402199P0009	HTGG 90515	33	W26	203854 4	52	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	HEXAGON HEAD SCREW	NB 312350P0411	HTGG 90515	23	W22		32	15
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	HEXAGON HEAD SCREW	NB 312350P0262	HTGG 90515	21	W22		28	14
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	HEXAGON HEAD SCREW	NB 312350P0260	HTGG 90515	22	W22		28	14
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	LOCK WASHER	W 007541P0024	HTGG 90515	29	W30		56	56
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	SEAL RING	MGT 304211R0001	HTGG 90515	11	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	SEAL RING	MGT 304211R0002	HTGG 90515	12	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSOR DE	SEAL RING	MGT 304211R0003	HTGG 90515	43	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	WASHER	W 402199P0012	HTGG 90515	32	W22	654137 3	48	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	LOCK WASHER	W 007541P0025	HTGG 90515	30	W24		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	LOOK WIRE	W 007541P0026	HTGG 90515	16	W30		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	HEXAGONAL NUT	NB 332600P0514	HTGG 90515	28	W22		14	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	HEXAGON HEAD SCREW	NB 312450P0418	HTGG 90515	26	W24		48	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	HEXAGON HEAD SCREW	NB 312350P0412	HTGG 90515	25	W24	654144 3	14	7
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	HEXAGON HEAD SCREW	NB 312450P0468	HTGG 90515	24	W24		24	12
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	WASHER	W 402199P0012	HTGG 90515	35	W22	654137 3	38	38
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	CONICAL SPRING WASHER	W 402199P0010	HTGG 90515	34	W24	649540 4	48	48
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	CONICAL SPRING WASHER	W 402199P0007	HTGG 90515	33	W28	654145 3	52	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	HEXAGON HEAD SCREW	NB 312350P0411	HTGG 90515	23	W22		32	15
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	HEXAGON HEAD SCREW	NB 312350P0262	HTGG 90515	21	W22		28	14
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	HEXAGON HEAD SCREW	NB 312350P0260	HTGG 90515	22	W22		28	14
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	LOCK WASHER	W 007541P0024	HTGG 90515	29	W30		56	56
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	SEAL RING	MGT 304211R0001	HTGG 90515	11	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	SEAL RING	MGT 304211R0002	HTGG 90515	12	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	SEAL RING	MGT 304211R0003	HTGG 90515	43	W36		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	DIFFUSER NDE	WASHER	W 402199P0012	HTGG 90515	32	W22	654137 3	48	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	O-RING	R 403028P0044	HTGG 90854	23	W22	163072 3	2	2

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SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	O-RING	R 403028P0035	HTGG 90854	24	W22	163071 3	3	3
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0001	HTGG 90854	115	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0002	HTGG 90854	46	W24		3	3
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0003	HTGG 90854	45	W22	203916 3	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0004	HTGG 90854	114	W22	486964 4	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0005	HTGG 90854	113	W26		3	3
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0062	HTGG 90854	34	W28		20	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0063	HTGG 90854	41	W28		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0064	HTGG 90854	42	W28		12	12
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING WASHER	NBT 400048P0616	HTGG 90854	35	W22		20	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING WASHER	NBT 400048P0613	HTGG 90854	40	W22	203925 4	28	28
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEX SOCKET HEAD SCREW	NB 315857P0472	HTGG 90854	-	W22		20	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGON HEAD SCREW	NB 312333P0466	HTGG 90854	32	W22		20	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGON HEAD SCREW	NB 312433P0473	HTGG 90854	39	W22		28	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGON HEAD SCREW	NB 312333P0520	HTGG 90854	36	W22		10	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGONAL NUT	NB 332600P0115	HTGG 90854	43	W22		28	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGONAL NUT	NB 332600P0116	HTGG 90854	38	W24	575380 3	10	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	WASHER	NB 335050P0111	HTGG 90854	33	W22		20	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	WASHER	NB 335220P1124	HTGG 90854	44	W30		48	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	LOCK WASHER	NB 336850P2094	HTGG 90854	37	W22		10	
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	GASKET	HTGG305603P0001	HTGG 90854	99	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	INSULATING TUBE	HTGG12966P0011	HTGG 90854	107	W28		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	INSULATING WASHER	W 402727P0005	HTGG 90854	106	W26		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	WASHER	NB 335200P2022	HTGG 90854	105	W24		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	CONICAL SPRING WASHER	NB 336405P0027	HTGG 90854	104	W22		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	CONICAL SPRING WASHER	NB 336405P0025	HTGG 90854	102	W22		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	HEXAGON HEAD SCREW	NB 312333P0414	HTGG 90854	103	W22		4	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	HEXAGON HEAD SCREW	NB 312333P0357	HTGG 90854	101	W24		4	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	O-RING	R 403028P0044	HTGG 90854	23	W22	163072 3	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	O-RING	R 403028P0035	HTGG 90854	24	W22	163071 3	3	3
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0001	HTGG 90854	115	W26		1	1
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0002	HTGG 90854	46	W24		3	3
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0003	HTGG 90854	45	W22	203916 3	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0004	HTGG 90854	114	W22	486964 4	2	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	GASKET	HTGG305603P0005	HTGG 90854	113	W26		3	3
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0062	HTGG 90854	34	W28		20	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0063	HTGG 90854	41	W28		16	16
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING TUBE	HTGG129680P0064	HTGG 90854	42	W28		12	12
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING WASHER	NBT 400048P0616	HTGG 90854	35	W22		20	20
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	INSULATING WASHER	NBT 400048P0613	HTGG 90854	40	W22	203925 4	28	28
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEX SOCKET HEAD SCREW	NB 315857P0472	HTGG 90854	-	W22		20	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGON HEAD SCREW	NB 312333P0466	HTGG 90854	32	W22		20	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGON HEAD SCREW	NB 312433P0473	HTGG 90854	39	W22		28	14
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGON HEAD SCREW	NB 312333P0520	HTGG 90854	36	W22		10	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGONAL NUT	NB 332600P0115	HTGG 90854	43	W22		28	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	HEXAGONAL NUT	NB 332600P0116	HTGG 90854	38	W24	575380 3	10	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	WASHER	NB 335050P0111	HTGG 90854	33	W22		20	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	WASHER	NB 335220P1124	HTGG 90854	44	W30		48	5
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SHAFT SEAL HOUSING ASS.	LOCK WASHER	NB 336850P2094	HTGG 90854	37	W24		10	10
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	GASKET	HTGG305603P0001	HTGG 90854	99	W26		1	1

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	INSULATING TUBE	HTGG212966P0011	HTGG 90854	107	W28		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	INSULATING WASHER	W 402727P0005	HTGG 90854	106	W26		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	WASHER	NB 335200P2022	HTGG 90854	105	W24		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	CONICAL SPRING WASHER	NB 336405P0027	HTGG 90854	104	W22		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	CONICAL SPRING WASHER	NB 336405P0025	HTGG 90854	102	W22		4	4
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	HEXAGON HEAD SCREW	NB 312333P0414	HTGG 90854	103	W22		4	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	HEXAGON HEAD SCREW	NB 312333P0357	HTGG 90854	101	W24		4	2
Generator & Aux	NK38-SOW-42000-10002	2.1.2 recom.	SUPPLY LONG	ROUND RUBBER SEAL	GME0944241R0001	HTGG90848	87	W24	654678 3	50	52
Generator & Aux	NK38-SOW-42000-10002	3.1.2 c	STATOR END SCREWING	GLUE	HIME455077P0001	HTGG90848	87	W22		1	1
Generator & Aux	NK38-SOW-42000-10002	3.1.2 c	STATOR END SCREWING	SCREW W.HEXAGONAL REC.HOL	NB 315857P0678	HTGG90848	81	W26		252	10
Generator & Aux	NK38-SOW-42000-10002	3.1.2 c	STATOR END SCREWING	DOWEL PIN WITH THREAD	GMN 338417P0516	HTGG90848	82	W24		4	1
Generator & Aux	NK38-SOW-42000-10002	3.1.2 c	STATOR END SCREWING	HEXAGONAL NUT	NB 332600P0117	HTGG90848	83	W22		4	1
Generator & Aux	NK38-SOW-42000-10002	3.1.2 c	STATOR END SCREWING	WASHER	NB 335050P0113	HTGG90848	84	W22		4	1
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		WEDGE SHIM	HTGG409534K0001			W32		3,360	3,360
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		WEDGE SHIM	HTGG409534K0002			W32		3,360	3,360
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		WEDGE SHIM	HTGG409534K0003			W32		3,360	3,360
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		WEDGE SHIM	HTGG409534K0004			W32		3,360	3,360
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		WEDGE SHIM	HTGG409534K0005			W32		3,360	3,360
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		WEDGE SHIM	HTGG409534K0006			W32		6,720	6,720
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		SLIDING STRIP	HTGG409535K0001			W32		504	504
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		FILLER STRIP	HTGG409531K0001			W32		1,344	1,344
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		FILLER STRIP	HTGG409531K0002			W26		1,344	1,344
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		FILLER STRIP	HTGG409531K0003			W26		1,344	1,344
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		FILLER STRIP	HTGG409531K0004			W26		1,344	1,344
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b Unit 1+2		WEDGE	GME0138161P0001			W29		5,890	5,890
Generator & Aux	NK38-SOW-42000-10002	3.1.2 b UNIT 1+2		WEDGE	GME0138161P0004			W29		5,880	5,880

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

Worksheet 6 Gen Bushings Parts										1,322,158				1,322,158				1,322,158				1,322,158			
										1,399,518				1,322,158				1,322,158				1,322,158			
										Subtotal				1,399,518				1,322,158				1,322,158			
SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	U2 Recon'd QTY	U1 Rac'd QTY	U3 Rac'd QTY	U4 Rac'd QTY	single price ea asst. U 1/3/4	single price ea asst. U 2	U2 Total Price	U3 Total Price	U4 Total Price						
Generator & Aux	NK38-SOW-42000-10002	2.1.5.d	TERMINAL	GENERATOR TERMINAL	HMG740552P0001	HTGG90848		2/W42	201843 3	6	6.00	6.00	6.00	6.00	6.00	215.822	228.401	1,870,405	1,294,933	1,294,933					
Generator & Aux	NK38-SOW-42000-10002	2.1.5.d	TERMINAL	TEFLON HOSE	HTGG212468R0001	HTGG90848		8/W30		12	12.00	12.00	12.00	12.00	2.101	2,223	26,881	25,212	25,212						
Generator & Aux	NK38-SOW-42000-10003	2.1.5.e	BUSHING CASING	ROUND RUBBER SEAL	GME09445241R0001	HTGG90848		45/W74	654678 9	20	20.00	20.00	20.00	20.00	57	61	1,132	1,145	1,145						
Generator & Aux	NK38-SOW-42000-10002	2.1.5.e	BUSHING CASING	GLUE	HIME455077P0001	HTGG90848		45/W22		1	1.00	1.00	1.00	1.00	52	55	55	52	52						
Generator & Aux	NK38-SOW-42000-10002	2.1.5.e	BUSHING CASING	HEXAGON HEAD SCREW	NB 312431P0625	HTGG90848		50/W24		60	10.00	5.00	5.00	5.00	57	60	602	285	285						
Generator & Aux	NK38-SOW-42000-10002	2.1.5.e	BUSHING CASING	CONICAL SPRING WASHER	NB 336406P0010	HTGG90848		52/W22		60	60.00	60.00	60.00	60.00	9	9	556	525	525						
Generator & Aux	NK38-SOW-42000-10002	2.1.5.e	BUSHING CASING	GASKET	NBT 400389P0013	HTGG90848		48/W22		1	1	1	1	1	7	7	7	7	7						

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

Back to Base Scope Summary												Total	1,245,991	
Worksheet 7 Gen Recomm Bushings												Subtotal	1,245,991	
SOW Package	SOW Doc #	SOW Reference	Description of higher level Item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY	Item Price	Subtotal Price	remark
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL	HEXAGON HEAD SCREW	HMG304662P0015	HTGG90848	23	W28		96	10.00	1,228	12,283	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL	CLAMPING DISC	W 402199P0014	HTGG90848	25	W22		384	384.00	109	42,041	Ref & material number same as line 27 but price is more than twice
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL	WASHER	W 402199P0015	HTGG90848	24	W28		192	20.00	242	4,833	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL	HEXAGONAL NUT	NB 332600P0516	HTGG90848	26	W30		96	96.00	12	1,185	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL	CYL-SCREW/HEXAGON SOCKET	NB 315838P0263	HTGG90848	11	W24		72	10.00	20	204	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL	CLAMPING DISC	W 402199P0004	HTGG90848	14	W22		144	144.00	91	13,136	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL	SEAL RING	HTGG406385P0013	HTGG90848	15	W22		12	12	163	1,957	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 c	TERMINAL	CONNECTION HALF	HTGG212661R0001	HTGG90848	9	W64		12	12	90,100	1,081,196	OPG to decide
Generator & Aux	NK38-SOW-42000-10002	2.1.5 d	TERMINAL-CASING COMP.	TEFLON HOSE	HTGG129440R0001	HTGG90848	8	W32	687385 3	6	6	3,366	20,196	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	BASIC RESIN EP 03	NBT 401839P0003	HTGG90848	16	W24	328922 4	1	1	164	164	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	HARDENER 30	NBT 401842P0006	HTGG90848	16	W24	328923 4	1	1	156	156	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	SOLVENT ACETON 1	NBT 400407P9001	HTGG90848	16	W26		1	1	50	50	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	WOVEN GLASS TAPE	NBT 401126P0014	HTGG90848	27	W24	654166 3	20	20	4	81	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	INSULATING TUBE	HTGG405623P0002	HTGG90848	37	W22	654134 3	24	24	131	3,146	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	SEALING RINGS	HTGG407477P0001	HTGG90848	66	W24		12	12	261	3,129	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	ROUND RUBBER RING	W 404052P0006	HTGG90848	28	W28		6	6	342	2,054	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	ROUND RUBBER RING	W 404052P0007	HTGG90848	70	W28		6	6	288	1,728	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	INSULATING WASHER	W 402727P0009	HTGG90848	36	W24	203857 3	36	36	119	4,290	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	INSULATION PIPE	HTGG011821P0031	HTGG90848	83	W28		24	24	18	425	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	INSULATION WASHER	W 402727P0054	HTGG90848	84	W24	654146 3	48	48	58	2,788	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	CONICAL SPRING WASHER	W 402199P0010	HTGG90848	21	W24	649540 4	24	24	23	555	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	CONICAL SPRING WASHER	W 402199P0017	HTGG90848	34	W42	654141 3	48	48	88	4,218	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	CONICAL SPRING WASHER	W 402199P0007	HTGG90848	68	W28	203853 4	48	48	156	7,507	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	CLAMPING DISC	W 402199P0014	HTGG90848	25	W24		144	144	109	15,766	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	WASHER	W 402199P0012	HTGG90848	22	W22	654137 3	54	27	8	209	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	WASHER	W 402199P0018	HTGG90848	33	W26	654140 3	24	12	146	1,752	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	WASHER	NB 335050P0615	HTGG90848	32	W24		24	12	103	1,233	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	HEXAGONAL NUT	NB 332600P0515	HTGG90848	16	W22	654139 3	24	12	2	25	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	HEXAGONAL NUT	NB 332600P0514	HTGG90848	35	W22		24	12	1	10	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	HEX. BOLT	MGT 304662P0009	HTGG90848	32	W26		72	35	97	3,383	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	HEXAGON HEAD SCREW	NB 312350P0412	HTGG90848	16	W24	654144 3	48	20	13	268	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	BASIC RESIN EP 03	NBT 401839P0003	HTGG90848	14	W24	328922 4	1	1	164	164	Same as line 13
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	HARDENER 30	NBT 401842P0006	HTGG90848	14	W24	328923 4	1	1	156	156	Same as line 14
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	SOLVENT ACETON 1	NBT 400407P9001	HTGG90848	14	W26		1	1	50	50	Same as line 15
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	WOVEN GLASS TAPE	NBT 401126P0014	HTGG90848	27	W26	654166 3	10	10	4	41	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	HEX-S SCR	NB 315840P0413	HTGG90848	74	W24		48	5	20	101	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	CONICAL SPRING WASHER	W 400904P0004	HTGG90848	75	W26		192	192	58	11,212	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	O-RING	W 404052P0003	HTGG90848	77	W22		12	12	121	1,450	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	WASHER	W 400883P0009	HTGG90848	76	W22		48	5	87	433	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	WOVEN GLASS TAPE	NBT 401832P0020	HTGG90848	78	W24		40	40	8	322	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	BASIC RESIN	HZN 451181P9001	HTGG90848	79	W26		1	1	201	201	
Generator & Aux	NK38-SOW-42000-10002	2.1.5 f	TERMINAL-CASING COMP.	HARDENER 81	HZN 451429P0001	HTGG90848	79	W24		1	1	1,893	1,893	

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Back to Base Scope Summary															Total	198,204	155,413	155,413	155,413			
Worksheet 8 Gen Aux SOW Spares															Subtotal	198,204	155,413	155,413	155,413			
SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	U2 Recom'd QTY	U1 Rec'd QTY	U3 Rec'd QTY	U4 Rec'd QTY	Single price ea part. U 1/3/4	Single price ea part. U 2	U2 Fixed Unit Price	U1, U3, U4 Firm unit Price	U2 Total Price	U1 Total Price	U3 Total Price	U4 Total Price	Remarks
Generator & Aux	NK38-SOW-42000-10002	2.4.e)	STATOR WATER COOLER	GASKET	HTGW404883P0001		W22		8	8	8	8	8	466	485			3,877	3,725	3,725	3,725	
Generator & Aux	NK38-SOW-42000-10002	2.4.e)	STATOR WATER COOLER	ELECTRODE	HTGW300986R0001		W32		4	4	4	4	4	2,293	2,386			9,545	9,171	9,171	9,171	
Generator & Aux	NK38-SOW-42000-10002	2.4.e)	STATOR WATER COOLER	HEXAGON HEAD SCREW	NB 312461P0467		W26		12	6	6	6	6	377	393			2,356	2,264	2,264	2,264	
Generator & Aux	NK38-SOW-42000-10002	2.4.e)	STATOR WATER COOLER	LOCKING PLATE	NB 336850P6074		W26		6	6	6	6	6	271	282			1,691	1,625	1,625	1,625	
Generator & Aux	NK38-SOW-42000-10002	2.4.e)	STATOR WATER COOLER	CLEANING SET	HTGW102654R8005		W20		2	2				2,128	2,215			4,430				
Generator & Aux	NK38-SOW-42000-10002	2.5.a)	SCREW PUMP	OVERHAUL KIT	HTGG407320R0801		W26		3					17,513	18,228							2x H2 Oil Pump [Vacuum Oil Pump] [will be omitted when option 5a) chosen.
Generator & Aux	NK38-SOW-42000-10002	2.5.a)	SCREW PUMP	MOTOR OVERHAUL KIT	HTGG407320R0701		W22		3					18,380	19,130							2x Motor for H2 Oil Pump [Motor for Vacuum Oil Pump] [will be omitted when option 5a) chosen.
Generator & Aux	NK38-SOW-42000-10002	2.5.f) obsolete		SEAL OIL PUMP	HTGR003451R0001		W42		2													Air Seal Oil Pump [will be replaced by new pumps]
Generator & Aux	NK38-SOW-42000-10002	2.5.f) obsolete		SEAL OIL PUMP	HTGR003451R0002		W42		1													Emergency Air Seal Oil Pump [will be replaced by new pumps]
Generator & Aux	NK38-SOW-42000-10002	2.5.g)		VENTILATION FAN	D 219593R0006		W42		1					85,514	89,005							Will be replaced by option 5.h) Note we are not able to provide here a like for like replacement OPG Should check on option 5.h
Generator & Aux	NK38-SOW-42000-10002	2.5.h)		DISCO-NON RETURN VALVE RK 86A	GME3789011P0006		W22		2	2	2	2	2	1,161	1,208			2,416	2,322	2,322	2,322	will be replaced by option 5.c) NRV's 42500 (NV102, 202, 302) (valf 100m)
Generator & Aux	NK38-SOW-42000-10002	2.5.h)		NONRETURN VALVE	GME3789011P0008		W22		3	3	3	3	3	2,138	2,225			6,675	6,414	6,414	6,414	
Generator & Aux	NK38-SOW-42000-10002	2.5.i)	SINGLE FILTER	MAINTENANCE SET S-FILTER	HTGG409033P0901		W24		4	4	4	4	4	15,865	16,532			66,049	63,459	63,459	63,459	Candles set consisting of:- 1x Filter - 17x Candle - 1x Solenoid Candle [Sealing set:- 1x O-RING (PERBUNAN)]
Generator & Aux	NK38-SOW-42000-10002	2.5.i)	TWO-STAGE FILTER	MAINTENANCE SET D-FILTER	HTGG406239R0901		W24		1	1	1	1	1	46,336	48,228			48,228	46,336	46,336	46,336	2x Insert (356x460 300/250)- 2x O-Ring Perbunan (266,2x3,53)- 2x O-Ring Perbunan (135,8x5,33)
Generator & Aux	NK38-SOW-42000-10002	2.5.i) obsolete		PRESSURE-REGULATOR	HTGG406744P0001		W42		3													Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.i) obsolete		PRESSURE-REGULATOR	HTGG406744P0002		W42		2													Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.i) obsolete		LEVEL SWITCH	HTGA402325P1010		W42		8													Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.k)	SEALOILCOOLER	CLEANING SET	HTGW302843R0801		W22		2	2				15,381	16,009			32,018				
Generator & Aux	NK38-SOW-42000-10002	2.5.k)	SEALOILCOOLER	O-RING	C 400667P0009		W20		4	4	4	4	4	580	604			2,416	2,322	2,322	2,322	
Generator & Aux	NK38-SOW-42000-10002	2.5.k)	SEALOILCOOLER	O-RING SEAL	TGW 300135P0052		W20		4	4	4	4	4	145	151			604	580	580	580	
Generator & Aux	NK38-SOW-42000-10002	2.5.k)	SEALOILCOOLER	O-RING	TGW 300135P0053		W20		4	4	4	4	4	1,045	1,087			4,350	4,179	4,179	4,179	
Generator & Aux	NK38-SOW-42000-10002	2.5.k)	SEALOILCOOLER	O-RING SEAL	TGW 300135P0054		W20		4	4	4	4	4	1,451	1,510			6,041	5,804	5,804	5,804	
Generator & Aux	NK38-SOW-42000-10002	2.5.l)	TEMPERATURE VALVE	REGULATOR MODUL	GME9789005P0B01		W22		4	4	4	4	4	1,625	1,691			6,766	6,501	6,501	6,501	
Generator & Aux	NK38-SOW-42000-10002	2.5.l)	TEMPERATURE VALVE	O RING	GME9789005P0901		W22		4	4	4	4	4	103	107			427	410	410	410	
Generator & Aux	NK38-SOW-42000-10002	2.5.l)	TEMPERATURE VALVE	BASE GASKET	GME9789005P0922		W22		6	6	6	6	6	50	52			314	302	302	302	

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Back to Base Scope Summary										Total	113,864		
Worksheet 9 Gen Recomm AUX Spares										Subtotal	113,864		
SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY	Item Price	Subtotal Price	Remarks
Generator & Aux	NK38-SOW-42000-10002	3.4.a) cont. Spare	STATORWATER COOLER	WATERBOXES	HTGW202295R0001		W24		2	2	20,529	41,059	
Generator & Aux	NK38-SOW-42000-10002	3.4.a) cont. Spare	STATORWATER COOLER	WATERBOXES	HTGW202295R0002		W24		2	2	20,529	41,059	
Generator & Aux	NK38-SOW-42000-10002	2.4.f) rec. Spare	TEMPERATURE REG. VALVE	TEMPERATURE ELEMENT	GME9789005P0803		W22				1,611		This is Amot and include the engineering scope
Generator & Aux	NK38-SOW-42000-10002	2.4.f) rec. Spare	TEMPERATURE REG. VALVE	BASING GASKET	GME9789005P0913		W24				342		This is Amot and include the engineering scope
Generator & Aux	NK38-SOW-42000-10002	2.4.f) rec. Spare	TEMPERATURE REG. VALVE	O - RING	GME9789005P0901		W22				107		This is Amot and include the engineering scope
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol	VACUUM TANK	GASKET VAKUUM TANK	HTGG128480P8001		W42		2				Engineered solution part / part is located on both ends of the Vacuum Tank (flanges)
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	SIGHT GLAS	O-RING	NBT 300280P0195		W24		13	8	13	101	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	SIGHT GLAS	SIGHT GLASS	HTGG406980P0128		W22		13	9	228	2,048	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	SIGHT GLAS	GASKET 39/48X1.5	HTGG212003P0804		W22		13	9	10	91	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	HTGG408311P0003		W26		7	4	302	1,208	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	HTGG408311P0009		W15		5	1	1,047	1,047	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	HTGG408311P0008		W15		5	1	765	765	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	HTGG408311P0001		W22		2	1	211	211	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare		BALL VALVE	W 403198P0013		W32		2		5,638		The valve is a 4" valve made of stainless steel with flanges on both ends / mybe we are a bit cheper if we shift this to a engineered solution part but in this case the piping should be changed. SU11S101 & S203. These will be included in option 5a / Yes this is include option 5a)
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	GME3788186P2032		W24		1	1	906	906	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	GME3788186P2025		W24		1	1	906	906	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	GME3788186P2008		W24		3	3	906	2,718	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	GME3788186P2015		W24		2	2	906	1,812	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		FLOWMETER	HTGG406174P0002		W42		2				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		FLOWMETER	HTGG406174P0001		W42		2				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		REMOTE TRANS F PRESSURE	HTGA304579P0006		W42		1				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		MANOSTAT	HTGA402263P0002		W42		1				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		DIFFERENTIAL PRESSURE TRANSDUCER	HTGA304580P0005		W42		2				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		ABSOLUTE PRESSURE GAUGE	W 403194P0007		W15		1				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		PRESSURE MONITOR	HTGA401962P0004		W42		1				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		PRESSURE GAUGE VALVE	HTGG406421P0001		W42		2				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		POINTER THERMOMETER	HTGA402790P0124		W42		2				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare		RESISTANCE ELEMENT	HTGA401785P2150		W26		3	3	1,651	4,954	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare		DOUBLE RESISTANCE ELEMENT	HTGA401785P2300		W26		2	2	1,712	3,423	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare		RESISTANCE ELEMENT	HTGA401785P2080		W26		2	1	1,712	1,712	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare - obsol		VALVE	HTGG411280P0001		W42		8				
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	GME3788186P2020		W15		2	2	906	1,812	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	OIL DRAIN VALVE	GASKET	NBT 400289P0030		W24		6	6	5	29	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	OIL DRAIN VALVE	GASKET	NBT 400289P0026		W24		6	6	4	27	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	OIL DRAIN VALVE	GASKET	NBT 400289P0039		W26		6	6	24	141	
Generator & Aux	NK38-SOW-42000-10002	2.5.m) rec. Spare	OIL DRAIN VALVE	O-RING	R 403028P0005		W22		6	6	6	36	
Generator & Aux	NK38-SOW-42000-10002	2.4.F) REC. SPARE - OBSOL		WEDGE-TYPE GATE VALVE	W 403293P0061		W42		10				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.4.f) rec. Spare		SHUT OFF VALVE	HTGG407150P0002		W22		6				Engineered solution part
Generator & Aux	NK38-SOW-42000-10002	2.4.f) rec. Spare		PRECISION PRESSURE REDUCER	HTGG406932P0005		W26		1	1	6,309	6,309	
Generator & Aux	NK38-SOW-42000-10002	2.3.d) rec. Spare	OIL DRAIN VALVE	GASKET	NBT 400289P0030		W24		1	1	5	5	
Generator & Aux	NK38-SOW-42000-10002	2.3.d) rec. Spare	OIL DRAIN VALVE	GASKET	NBT 400289P0026		W24		1	1	4	4	
Generator & Aux	NK38-SOW-42000-10002	2.3.d) rec. Spare	OIL DRAIN VALVE	GASKET	NBT 400289P0039		W26		1	1	24	24	
Generator & Aux	NK38-SOW-42000-10002	2.3.d) rec. Spare	OIL DRAIN VALVE	O-RING	R 403028P0005		W22		1	1	6	6	
Generator & Aux	NK38-SOW-42000-10002	2.3.d) rec. Spare	MEMBRANE VALVE	DIAPHRAGM	HTGG408306P0003		W22		16	6	242	1,450	

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Back to Base Tables Summary										Worksheet 10 ST Specific SOW Spares										Total		7,047,407	5,620,525	5,226,079	5,182,761
																				Subtotal	7,047,407	5,620,525	5,226,079	5,182,761	
SOW Package	SOW Doc #	SOW Reference	Description of higher level Item	Description	Material number	Nomenclature Dwg	Nomenclature (ITEM)	Lead time (Weeks)	OPG CAT ID's	Single unit installed CITY	U2 Recom'd QTY	U3 Rec'd QTY	U3 Rec'd QTY	U4 Rec'd QTY	Single price on part U3/3/4	Single price on part U2	U3 Total Price	U3 Total Price	U3 Total Price	U4 Total Price	U4 Total Price	Remarks			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INLET VALVE	BUSH	HTG8205928R0001	HTGD690215	36	W40	203444	4	2	1	1	1	34,867	36,290	72,580	34,867	34,867	34,867					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INLET VALVE	SEALING ELEMENT 2 PIECES	HTG8341025R0001	HTGD690215	40	W40	203445	4	2	2	1	1	25,703	26,752	107,007	51,405	25,703	25,703					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INLET VALVE	RING AS DELIVERED COND	HTGD688112P0003	HTGD690215	82	W40	203419	4	4	1	1	1	16,238	16,901	67,603	16,238	16,238	16,238					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	VALVE BONNET COMPL	VALVE INSERT	HTG8103432R0001	HTGD690215	20	W50	203440	4	1	1			81,477	84,803	84,803	81,477	81,477	81,477					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	VALVE BONNET COMPL	BELL BEARING	HTG8104461P0001	HTGD690215	30	W46	203442.3	4	1	1			82,686	86,061	86,061	82,686	82,686	82,686					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	VALVE BONNET COMPL	CONTR VALVE SPINDLE COMPL	HTG8104653R0001	HTGD690215	32	W46	203446	4	1	1			46,025	47,904	47,904	46,025	46,025	46,025					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	VALVE BONNET COMPL	BUSH	HTG8307829R0001	HTGD690215	33	W40	203438	4	2	1	1	1	13,349	13,893	27,787	13,349	13,349	13,349					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	VALVE BONNET COMPL	WELDING RING	HTG8412631P0003	HTGD690215	34	W24	203437.4	4	4	4	4	4	844	879	3,515	844	844	844					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 c	MAIN CLOSURE INSTALLATION	VALVE SEAT	HTG8205928R0001	HTGD690215	7	W40	203426	4	4	1	1	1	16,138	16,797	67,189	16,138	16,138	16,138					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 c	MAIN CLOSURE INSTALLATION	BUSH	HTG8309444R0001	HTGD690215	8	W36	203461.4	4	4				7,372	7,673	30,693								
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 c	MAIN CLOSURE INSTALLATION	WELDING RING	HTG8412631P0002	HTGD690215	9	W30	203429.4	4	4	4	4	4	1,259	1,311	5,242	5,037	5,037	5,037					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 c	MAIN CLOSURE INSTALLATION	WELDING RING	HTG841338P0002	HTGD690215	10	W26	203427.4	4	4	4	4	4	716	745	2,979	2,862	2,862	2,862					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 c	INLET VALVE	SEALING ELEMENT 2 PIECES	HTG8341026R0001	HTGD690215	16	W40	203423	4	4	2	1	1	22,963	23,889	95,557	45,905	22,953	22,953					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 c	INLET VALVE	BUSH	HTG8205927R0001	HTGD690215	18	W40	203424	4	2				28,731	29,903	59,806								
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INLET VALVE	HEXAGON HEAD SCREW	NB 312333P0465	HTGD690215	20	W20	203453.3	64	16	16	16	16	3	3	50	48	48	48					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INLET VALVE	LOCK WASHER	NB 316810P0075	HTGD690215	21	W26	203454.4	64	16	16	16	16	9	9	143	137	137	137					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	STEAM STRAINER	FINE STRAINER COMPLETE	HTG8310549P0002	HTGD690215	42	W24		8	1	1	1	1	10,202	10,723	10,723	10,302	10,302	10,302					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	4/2 WAY VALVE	HTG831055P0010	HTGD690215	16	W26		4					1,454	1,555									
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	SET OF SEALINGS	HTG831055P0010	HTGD690215	26	W26		4					299	270									
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	4/2 WAY VALVE	HTG831055P0010	HTGD690215	35	W26		4					2,371	2,468									
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	SET OF SEALINGS	HTG831055P0010	HTGD690215	35	W24		4					428	446									
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	2/2-WAY VALVE	HTG8309269P0001	HTGD690215	17	W26		4	1	1			7,272	7,569	7,569	7,272							
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	SET OF SEALINGS	HTG8309269P0003	HTGD690215	17	W24		4	2				608	632	2,530	1,215							
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	GUIDE BAND	HTG8307744P0009	HTGD690215	40	W22		4	4	4	4	4	1,463	1,702	1,357	1,304	1,304	1,304					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	TEFLON GASKET	HTG8204843P0052	HTGD690215	41	W26		4	4	4	4	4	877	912	1,650	1,506	1,506	1,506					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	R 403028P0012	HTGD690215	53	W22	163030.4	4	4	4	4	4	12	12	99	95	95	95					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	R 403028P0014	HTGD690215	55	W22	163032.4	4	4	4	4	4	5	5	20	19	19	19					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	R 403028P0018	HTGD690215	56	W22	163104.4	4	4	4	4	4	57	60	236	229	229	229					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	R 403028P0041	HTGD690215	52	W22	163027.4	4	4	4	4	4	38	39	156	150	150	150					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	R 403028P0077	HTGD690215	57	W22	163029.4	4	4	4	4	4	119	123	493	474	474	474					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	R 403028P0080	HTGD690215	58	W28		4	4	4	4	4	106	116	440	423	423	423					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	R 403028P0088	HTGD690215	59	W22		4	4	4	4	4	129	135	539	518	518	518					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	LOCKING RING	NB 435110P0037	HTGD690215	44	W22		4	4	2	1	1	10	10	41	20	10	10					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	LOCKING RING	NB 435110P0020	HTGD690215	50	W22		4	4	2	1	1	1	1	4	2	1	1					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	LOCKING RING	NB 435110P0080	HTGD690215	51	W22		4	4	2	1	1	20	21	83	40	20	20					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	GUIDE PIN	NB 338750P0421	HTGD690215	22	W22		8					4	5	664	638	638	638					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INSERT BUSH, COMPLETE	GUIDE BAND	HTG8307744P0009	HTGD690215	10	W22		4	4	4	4	4	159	166	664	638	638	638					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INSERT BUSH, COMPLETE	WIPER	R 405430P0020	HTGD690215	9	W22	203466.3	4	4	4	4	4	278	289	1,158	1,112	1,112	1,112					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INSERT BUSH, COMPLETE	TEFLON GASKET	HTG8204843P0052	HTGD690215	11	W22		4	4	4	4	4	299	311	1,244	1,196	1,196	1,196					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	INSERT BUSH, COMPLETE	SPRING RING	HTG8204853P0008	HTGD690215	12	W22		4	4	4	4	4	16	17	66	63	63	63					
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	- SERVOMOTOR	O-RING	R 403028P0073	HTGD690215	41	W22		4					56	58						By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected.			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	GASKET	GA809234483P0026	HTGD690215	25	W22		4					34	35						By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected.			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	WIPER	R 403420P0020	HTGD690215	67	W22	203466.3	4					278	289						By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected.			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	GASKET	GA809234483P0013	HTGD690215	47	W22		4					68	70						By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected.			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	GASKET	GA809234483P0041	HTGD690215	47	W22	197441.3	4					648	674						By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected.			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	GUIDE RING	HTG8204853P00135	HTGD690215	36	W30	163077.4	4					199	207						By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected.			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	HTG8204853P00136	HTGD690215	37	W24		4					189	197						By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected.			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	GUIDE RING	HTG8204853P00133	HTGD690215	39	W30		4					677	705						By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected.			
Turbine & Aux	NCH3-SOW-41000-10002	2.4.1 d	SERVOMOTOR	O-RING	HTG8204853P00142	HTGD690215	39	W24		4					319	332						By ordering OPTION 2a or 2b or 2			

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Master Pricing Tables
OPG DINGS TG Refurbishment Project

SOW Package	SOW Desc #	SOW Reference	Description of Higher level item	Description	Material number	Nonstandard Dwg	Nonstandard ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	U2 Rec'd QTY	U1 Rec'd QTY	U3 Rec'd QTY	U4 Rec'd QTY	Single price ea part U 1/2/3/4	Single price ea part U 2	U2 Total Price	U1 Total Price	U3 Total Price	U4 Total Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	FLAP DISC	HTGD02987P0001	HTGD090226	1	W50	203518	12	1				177,769	185,035	185,035				
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SHAFT JOURNAL, LONG	HTGR10459P0001	HTGD090226	5	W40	488112	12	4	2	2	2	27,599	29,080	116,318				
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SHAFT JOURNAL, SHORT	HTGR10464P0001	HTGD090226	6	W40	488112	12	4	2	2	2	25,790	26,843	107,371	55,878	55,878	55,878	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	BEARING BUSH	HTGR10466P0001	HTGD090226	10	W40	488112	24	4	4	4	4	22,992	23,811	95,223	51,580	51,580	51,580	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SOCKET FS	HTGR20592P0002	HTGD090226	11	W40	485300	12	2	2			16,818	17,502	35,004	33,831	33,831	33,831	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SOCKET LS	HTGR20592P0003	HTGD090226	14	W22	485300	12	2	2			19,320	20,109	40,217	38,640	38,640	38,640	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	LOCKING NUT	HTGR20595P0001	HTGD090226	16	W26		24	4	4			2,192	2,281	9,124	8,767	8,767	8,767	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SCREW W/HEXAGONAL REC.HOL	NB 31585P00412	HTGD090226	29	W22		24	4	4	4	4	1	1	4	4	4	4	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	PARALLEL KEY	HTGR41776P0001	HTGD090226	20	W24		12	2	2	2	2	737	767	1,534	1,474	1,474	1,474	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	PARALLEL KEY	HTGR41776P0001	HTGD090226	21	W24		12	2	2	2	2	757	788	1,576	1,514	1,514	1,514	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	ROUND KEY	R 50253P0001	HTGD090226	23	W24		24	4	4	4	4	135	141	564	542	542	542	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	ALLEN SCREW	NB 31585P00261	HTGD090226	41	W22		24	4	4	4	4	1	1	4	4	4	4	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	PISTON RING	HTGR31075P0001	HTGD090226	32	W22		120	120	20	20	20	388	404	48,522	7,770	7,770	7,770	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SCREW W/HEXAGONAL REC.HOL	NB 31585P00530	HTGD090226	33	W24		192	48	32			29	30	1,450	929			
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	CIRCLIP RING	NB 32584P0003	HTGD090226	47	W24		192	192	32	32	32	9	9	1,778	285	285	285	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	EXPANSION SCREWED BOLT	TGD 22060P0005	HTGD090226	34	W24		96	16	16			1	1	11	11			
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	HEXAGONAL NUT	NB 32060P0015	HTGD090226	46	W22		96	16	16			1	1	11	11			
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	HEX SOCKET HEAD SCREW	NB 31585P00475	HTGD090226	35	W22		96	16	16			1	1	11	11			
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	CIRCLIP RING	NB 32584P0002	HTGD090226	48	W28		96	16	16	16	16	7	7	116	111	111	111	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SCREW W/HEXAGONAL REC.HOLE	NB 31585P00424	HTGD090226	36	W22		144	24	12			2	2	48	23			
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	HSFIN-SPRING RING	NB 32584P00060	HTGD090226	49	W28		240	40	40			1	1	290	279			
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	HEX SOCKET HEAD SCREW	NB 31585P00385	HTGD090226	37	W22		24	4	4	4	4	1	1	4	4			
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	CIRCLIP RING	NB 32584P00069	HTGD090226	50	W22		24	4	4	4	4	7	7	28	28			
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SCREW W/HEXAGONAL REC.HOLE	NB 31585P00542	HTGD090226	38	W22		48	8	8	8	8	7	7	58	56	56	56	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SCREW PLUG	NB 31425P00008	HTGD090226	42	W36		24	4	4	4	4	147	153	614	580	590	590	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	GASKET	NBT 40038P00052	HTGD090226	53	W24	203987	24	4	4	4	4	18	19	76	73	73	73	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	PIVOTED FLAP	SPRING COTTER	NB 33875P00116	HTGD090226	54	W30		48	8	8	8	8	7	7	58	56	56	56	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	LOCK	SEAL RING	HTGR41586P0001	HTGD090226	28	W22		12	2	2	2	2	329	342	684	657	657	657	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	LOCK	EXPANSION STUD	TGD 21895P0003	HTGD090226	29	W24		72	12	12	12	12	31	32	287	273	273	273	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	LOCK	HEXAGONAL NUT	HTGR40173P0002	HTGD090226	30	W22		72	12	12	12	12	21	22	261	251	251	251	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	SPRING-LOADED BRAKE	CLIP SPRING	R 40848P00017	HTGR090117	106	W22		36	36	18	6	6	168	176	6,343	3,047	1,016	1,016	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	SPRING-LOADED BRAKE	SPACER RING	HTGR41594P0001	HTGR090117	105	W32		6	1				5,185	5,397	5,397				
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	ACCUMULATOR	DAMPER	HTGR41770P0001	HTGD090216	8	W28	203542	6	6	6	1	1	166	173	1,037	996	168	168	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	ACCUMULATOR	O-RING	R 40902P00028	HTGD090216	15	W22		12	12	12	2	2	14	14	174	167	28	28	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	ACCUMULATOR	GUIDE BAND	HTGR30774P00025	HTGD090216	16	W22	203541	12	12	12	2	2	153	158	1,589	1,511	318	318	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 c & d	ACCUMULATOR	GUIDE BAND	HTGR30785P00049	HTGD090216	17	W24	203540	12	12	12	2	2	136	142	1,292	1,235	273	273	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	RETAINING RING	R 40808P00001	HTGR 90113	222	W26		24	12	4	4	4	518	500	6,730	2,152	2,152	2,152	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	GASKET	HTGR41559P0001	HTGR 90113	109	W22		12	6	2	2	2	20	21	224	40	40	40	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	O-RING	HTGR20482P00012	HTGR 90113	318	W22	263025	12	12	12	12	12	29	30	357	343	343	343	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	SLIDE RING	HTGR20442P0001	HTGR 90113	319	W24	203739	12	12	12	12	12	174	181	2,176	2,090	2,090	2,090	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	GUIDE BAND	HTGD33860P00004	HTGR 90113	317	W26		12	12	12	12	12	261	272	3,262	3,134	3,134	3,134	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	O-RING	R 40302P00028	HTGR 90113	312	W22		12	12	12	12	12	54	56	672	645	645	645	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	O-RING	R 40302P00053	HTGR 90113	21	W22		12	12	12	12	12	69	72	1,734	1,666	1,666	1,666	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	O-RING	R 40302P00056	HTGR 90113	213	W22	163030	24	24	24	24	24	68	71	1,708	1,641	1,641	1,641	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	SERVOMOTOR	O-RING	R 40302P00056	HTGR 90113	4127	W22	163011	24	24	24	24	24	10	10	21	20	20	20	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	LOCK NUT	GMM 33646P00118	HTGR 90113	515	W22		12	2	2	2	2	6	6	2,271	2,271	1,136	1,136	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	BELLOW	HTGR41587P0001	HTGR 90113	451	W24		6	2	2	1	1	1,136	1,182	2,264	2,271	1,136	1,136	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	HOSE CLIP	R 40875P00002	HTGR 90113	453	W24		6					165	172					By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	HOSE CLIP	R 40875P00006	HTGR 90113	452	W26		6					13	13					By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	O-RING	R 40302P00016	HTGR 90113	76	W22	163032	12	2	2	2	2	10	10	20	19	19	19	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	O-RING	R 40302P00029	HTGR 90113	310	W22	163033	6	6	6	6	6	9	9	54	52	52	52	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	O-RING	R 40302P00038	HTGR 90113	81	W22	163144	12	12	12	12	12	57	60	715	687	687	687	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	O-RING	R 40302P00045	HTGR 90113	42	W22	163034	6	6	6	6	6	45	46	278	268	268	268	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	O-RING	R 40302P00048	HTGR 90113	304	W24	163035	6	6	6	6	6	31	33	196	188	188	188	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	O-RING	R 40302P00073	HTGR 90113	82	W22		6	6	6	6	6	56	58	348	334	334	334	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	PILOT CONTROL	LOCKING RING	NB 43510P00068	HTGR 90113	24	W22		6	2	1	1	1	2	2	4	2	2	2	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4 d	DISCONNECT	O-RING	R 40302P00014	HTGR 90113	70	W22	163042	6	6	1	1	1	5	5	80	5	5	5	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10																				

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Master Pricing Tables
OPG DNGS TO Refurbishment Project

ROW Package	ROW Doc #	ROW Reference	Description of Higher Level Item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	U2 Rec'd QTY	U3 Rec'd QTY	U4 Rec'd QTY	Single price on part U 1/3/4	Single price on part U 1	U2 Total Price	U3 Total Price	U4 Total Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	2.1.4.e	SPRING BACK RESILIENCE	DU-BUSH	B 302530P01.65	HTG091013	6205	W22		24	4	4	4	16	17	66	63	63	
Turbine & Aux	NK38-SOW-41000-10002	2.1.4.e	SPRING BACK RESILIENCE	SPRING COFFER	NB 338750P03.19	HTG091013	6207	W22		12	2	2	2	1	1	2	2	2	
Turbine & Aux	NK38-SOW-41000-10002	2.1.4.e	SPRING BACK RESILIENCE	SPRING COFFER	NB 338750P03.70	HTG091013	6105	W24		12	2	2	2	14	14	25	28	28	
Turbine & Aux	NK38-SOW-41000-10002	2.1.4.e	SPRING BACK RESILIENCE	SPRING COFFER	NB 338750P04.70	HTG091013	6106	W24		12	2	2	2	34	34	70	68	68	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	DOILER PLANGES	DIFFERENTIAL NUT CPL	HTG0291402P001.3					40	40	40	40						
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	HP OUTER CASING	NUT W. HEX. RECESSED HOLE	TGD 222050P0001	HTG090168	8	W32		80	12	24	24	811	844	10,132	18,469	18,469	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	HP OUTER CASING	LOCKING KEY	HTG022203P0001	HTG090182	11	W33		4	4			1,541	1,604	6,417			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	HP OUTER CASING	SUPERFICIAL FLNUT KEY	GMD0291402P001.0					40	20	20	20						
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.d	BALANCING HOLE COVER	STANDARD PRESSURE SPRING	NB 434441P1050	HTG090153	26	W24	702775.3	2	2			287	290	598			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.d	BALANCING HOLE COVER	GASKET	GMD0934625P0106	HTG090153	23	W22		2	2			65	67	135			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.d	BALANCING HOLE COVER	EXPANSION STUD	TGD 218936P0102	HTG090153	21	W26		12	6	6		174	181	1,087	1,045		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.d	BALANCING HOLE COVER	HEXAGONAL NUT	HTG040174P0022	HTG090153	22	W22	575401.3	12	6			16	27	144	158		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	HP-SHAFT SEAL	CYLINDRICAL THRUST SPRING	D 406862P0001	HTG090143	6	W24		120	120	120	120	20	21	2,587	2,438	2,438	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	HP-SHAFT SEAL	CYLINDRICAL THRUST SPRING	D 418053P0001	HTG090143	13	W24		55	56	56	56	8	8	474	455	455	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	HP-SHAFT SEAL	SEAL RING 2 HALVES	HTG0017620P0005	HTG090143	14	W40		1	1			23,507	24,466	24,466			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	HP-SHAFT SEAL	SUPPORT RING 2 HALVES	HTG0017620P0006	HTG090143	15	W40	674258	1	1			32,542	33,870	33,870			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	HP-SHAFT SEAL	CYLINDRICAL THRUST SPRING	D 406862P0001	HTG090143	6	W24		120	120	120	120	20	21	2,537	2,438	2,438	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	HP-SHAFT SEAL	CYLINDRICAL THRUST SPRING	D 418053P0001	HTG090143	13	W24		56	56	56	56	8	8	474	455	455	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	HP-SHAFT SEAL	SEAL RING 2 HALVES	HTG0017620P0005	HTG090143	14	W40		1	1			23,507	24,466	24,466			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	HP-SHAFT SEAL	SUPPORT RING 2 HALVES	HTG0017620P0007	HTG090143	15	W40	674258	1	1			32,542	33,870	33,870			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.b	SEALINGS	SHEAR RING	HTG031324P70001	HTG090158	2	W32		4	4			6,193	6,528	34,111			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.b	SEALINGS	SEALING RING	HTG0329711P0001	HTG090158	4	W32		16	16			2,393	2,491	39,852			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.b	SEALINGS	PISTON RING	HTG0329710P0001	HTG090158	6	W36		8	8			6,246	6,501	52,009			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.b	SEALINGS	CYLINDRICAL THRUST SPRING	TGD 430600P0001	HTG090158	8	W32		80	80			34	36	13,764			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.b	SEALINGS	LOCKING PLATE	HTG045113P0001	HTG090158	19	W24		8	8			324	338	2,702			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.b	SEALINGS	SUPPORT RING	HTG021273P0004	HTG090158	11	W30		2	2			122	127	1,213			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	SUPPORT RING	HTG021273P0004	HTG090158	11	W30		2	2			6,304	6,354	12,707			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	SHEAR RING	HTG0227971P0004	HTG090158	2	W32		2	2			2,373	2,470	4,593			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	CYLINDRICAL THRUST SPRING	TGD 430600P0001	HTG090158	8	W32		80	80			34	36	2,867	2,755		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	BOLT	TGD 430614P0001	HTG090158	11	W28		4	4			164	171	684			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	SEALING RING	HTG012252P0012	HTG090158	6	W32		4	4			1,541	1,604	6,417			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	PISTON RING	HTG012252P0004	HTG090158	4	W30		8	8			1,187	1,245	9,564			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	SUPPORT RING	HTG021273P0007	HTG090158	1	W32		2	2			6,304	6,438	11,256			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	SHEAR RING	HTG0227971P0007	HTG090158	2	W26		2	2			1,346	1,443	6,966			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	CYLINDRICAL THRUST SPRING	TGD 430600P0001	HTG090158	8	W32		112	112	112		34	36	4,214	3,857		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	BOLT	TGD 430614P0001	HTG090158	11	W28		4	4	4	4	164	171	684	657	657	657
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	SEALING RING	HTG012252P0015	HTG090158	6	W30		4	4			2,718	2,828	11,314			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.f	SET OF SEALING RING	PISTON RING	HTG012252P0007	HTG090158	4	W30		8	8			2,008	2,090	16,717			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	THERMOCOUPLE	D 420382R0002	W26	203158			2	2	2	2	1,683	1,752	3,504	3,366	3,366	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	THERMOCOUPLE	D 420382R0003	W26	203158			2	2	2	2	2,816	2,723	5,446	5,232	5,232	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	THERMOCOUPLE	D 421131P1215	W26	1			1	1			11,319	11,780	11,780	11,319		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	HEXAGONAL NUT	NB 332800P0416	W22				2	2	2	2	28	30	59	57	57	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	BRIDE 20 X 10 X 37	TGD 431153P0002	W26				1	1	1	1	134	139	139	134	134	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	CLAMP	TGD 431153P0002	W26				4	4	4	4	832	865	3,462	3,326	3,326	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	HEXAGON HEAD SCREW	HZN 401683P1215	W22				9	4	4	4	114	118	473	454	454	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	LOCK WASHER	HZN 451341P0357	W22				9	9	9	9	7	7	67	64	64	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	THERMOCOUPLE	D 421131P1215	W26				1	1			11,319	11,780	11,780	11,319		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	GASKET	GMD0924625P0013	HTG090082	4	W22		12	12	12	12	336	350	4,197	4,033	4,033	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.g	TEMPERATURE MEASUREMENT	RUPTURE DISC	HTG0200160P0001	HTG090082	1	W22	OPG book	12	4			11,788	11,728	46,812			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING	HEXAGON HEAD SCREW	NBT 403026P1123	HTG090197	1	W24		12	4	4		217	226	905	870		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING	HEXAGONAL NUT	NB 332500P0516	HTG090197	2	W20		12	4	4		28	29	113	111		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING	SCREW W. HEXAGONAL RECH HOLE	NBT 403025P1822	HTG090197	4	W24		12	4	4		198	206	823	791		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING	LOCKING PLATE	HTG045094P0001	HTG090197	3	W24		12	4	4		63	66	263	253		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING	WASHER	HTG045054P0001	HTG090197	5	W22		12	4	4		87	91	362	348		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING LP OUTER CASING	HEXAGON HEAD SCREW	NBT 403026P1123	HTG090197	1	W24		12	4			217	226				
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING LP OUTER CASING	HEXAGONAL NUT	NB 332500P0516	HTG090197	2	W20		12	4			28	29				
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING LP OUTER CASING	SCREW W. HEXAGONAL RECH HOLE	NBT 403025P1822	HTG090197	4	W24		12	4			198	206				
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING LP OUTER CASING	LOCKING PLATE	HTG045054P0001	HTG090197	3	W24		12	4			63	66				
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	WEDGING LP OUTER CASING	WASHER	HTG045054P0001	HTG090197	5	W22		12	4			87	91				
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	SUPPORTING BOLT	LOCKING PLATE	HZN 451341P0769	HTG090194	14	W24		24	6	6	6	65	68	407	361		
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	SUPPORTING PLATE	SET OF SHIMS	HTG0228751R0001	HTG090194	6	W26	516974.3	12	4	2		1,264	1,315	5,262	2,528	391	391
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	SUPPORTING PLATE	LOCKING PLATE	HZN 451341P0662	HTG090194	4	W24		24	8	8	8	55	58	461	443	443	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	SUPPORT OUTER CASING	SPHERICAL SEAT	HTG0448075P0001	HTG090061	6	W26		24	8			2,965	3,086	6,173			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	SUPPORT OUTER CASING	SPHERICAL WASHER	HTG0448075P0002	HTG090061	5	W26		24	2			1,977	2,028	4,115			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	SUPPORT OUTER CASING	SPHERICAL WASHER	HTG0448075P0001	HTG090061	3	W26		24	2			1,779	1,862	3,704			
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.e	SUPPORT OUTER CASING	SPHERICAL SEAT	HTG0448075P														

Alstom
Thermal Power Services
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Master Pricing Tables
OPG DNGS TG Relubrication Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Org	Nomenclature Item	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	U2 Rec'd QTY	U1 Rec'd QTY	U3 Rec'd QTY	U4 Rec'd QTY	Single price as part U1/2/4	Single price as part U2	U2 Total Price	U1 Total Price	U3 Total Price	U4 Total Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	2.3.1.e	END BEARING CASING	ISOLATIONSRING	HTGD00177610002	HTGD090200	W24			1	1				1,451	1,510	1,510				
Turbine & Aux	NK38-SOW-41000-10002	2.3.1.e	END BEARING CASING	ISOLATIONSROHR	HTGD0017883P0059	HTGD090200	W24			1	1				774	805	805				
Turbine & Aux	NK38-SOW-41000-10002	2.3.1.e	HP-SCREWED PIPE CONNECT.	SICHERUNGSBLECH	NB 33685092034	HTGD090200	W22			5	5	5	5	5	34	36	179	172	172	172	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1.e	HP-SCREWED PIPE CONNECT.	BLADE	TGD 43215180001	HTGD090200	W24			1	1	1	1	1	1,722	1,792	1,792	1,722	1,722	1,722	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1.e	HP-SCREWED PIPE CONNECT.	SICHERUNGSBLECH	NB 33685092034	HTGD090200	W22			1	1	1	1	1	34	36	179	172	172	172	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1.e	HP-SCREWED PIPE CONNECT.	BLADE	TGD 43215180002	HTGD090200	W24			1	1	1	1	1	1,722	1,792	1,792	1,722	1,722	1,722	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1.e	HP-SCREWED PIPE CONNECT.	ISOLERSCHLEIBE	TGD 43215180002	HTGD090200	W24			6	6	6	6	6	213	222	1,229	1,277	1,277	1,277	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1.e	HP-SCREWED PIPE CONNECT.	ZWISCHENSCHLEIBE	TGD 43215180003	HTGD090200	W24			6	6	6	6	6	213	222	1,229	1,277	1,277	1,277	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5.d & c	PRESSURE CONTROL VALVE	STANDARD PRESSURE SPRING	NB 43444193051	HTGD090129	12			1	1	1			3,403	3,542	3,542	3,403			
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.2.c	LUBE OIL TANK	NONRETURN VALVE	HTGD00151780002	HTGD090129	W44			204321	1				95,294	95,184					SC165010
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.2.c	NONRETURN VALVE	VALVE GUIDE	R 102521P0002	HTGD090129	2			W46	204753	1	1	1	18,530	19,286	19,286	18,530	18,530	18,530	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.2.c	NONRETURN VALVE	STANDARD PRESSURE SPRING	NB 43444193051	HTGD090129	12			W46	204321	1	1	1	10,235	10,692	10,692	10,235	10,235	10,235	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.2.c	NONRETURN VALVE	HEXAGON HEAD SCREW	NB 312431P0573	HTGD090129	10			W22		1	1	1	824	858	858	824	824	824	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.2.c	NONRETURN VALVE	SCREW W/HEXAGONAL REC.HOL	NB 315857P0318	HTGD090129	10			W22		2	2	2	10	11	174	167			
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.2.c	NONRETURN VALVE	GASKET	R 304533P0001	HTGD090129	9			W22		2	2	2	170	177	355	341	341	341	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2.c	SCREW PUMP	CYLINDRICAL ROLLER BEAR.	NBT 631120P0162	HTGD090090	12			W28		2	2	2	1,418	1,476	2,952	2,836	2,836	2,836	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.1.c	MAIN LUBE OIL PUMP	RADIAL BEARING	HTGR30343P0003	HTGD090084	7			W36	203562	4	4	2	9,600	9,911	39,665	19,199			
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.1.c	MAIN LUBE OIL PUMP	THRUST BEARING	HTGR20465P0001	HTGD090084	6			W32		1	1		9,454	9,840	9,840	9,454			
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3.c	VACUUM RELIEF VALVE	SEAL RING	HTGR41548P0001	HTGR 90028	10			W25		3	3	3	705	733	2,200	2,114	2,114	2,114	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3.c	VACUUM RELIEF VALVE	GASKET	HTGR41548P0001	HTGR 90028	23			W22		3	3	3	151	157	473	453	453	453	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3.c	VACUUM RELIEF VALVE	CORRUGATED SEAL RING	HTGR41417P0006	HTGR 90028	22			W22		3	3	3	368	383	1,148	1,103	1,103	1,103	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3.c	VACUUM RELIEF VALVE	CORRUGATED SEAL RING	HTGR41417P0009	HTGR 90028	21			W22		3	3	3	285	297	890	856	856	856	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3.c	VACUUM RELIEF VALVE	O-RING	HTGR20465P0136	HTGR 90028	18			W24		3	3	3	189	197	591	568	568	568	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3.c	VACUUM RELIEF VALVE	O-RING	HTGR20465P0082	HTGR 90028	20			W22		3	3	3	29	30	89	86	86	86	
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR	GASKET	GMD0924481P0012	HTGR308410	158			W22		2	2	2	41	42	85	81	81	81	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR	WIPER	R 405420P0020	HTGR308410	23			W22	203774	2	2	2	315	328	955	630	630	630	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	GASKET	TGR 305558P0001	HTGR308410	658			W22		2	2	1	124	129	258	124	124	124	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	O-RING	R 403028P0048	HTGR308410	16			W22	163035	4	2	2	31	33	60	63	63	63	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	O-RING	R 403028P0060	HTGR308410	21			W22	163083	4	2	2	87	91	182	175	175	175	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	O-RING	R 403028P0027	HTGR308410	067			W22	163044	2	2	2	13	13	27	26	26	26	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	O-RING	R 403028P0045	HTGR308410	41			W22	163049	3	2	2	46	48	95	92	92	92	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	DU BUSH	R 302530P0157	HTGR308410	53			W22	203773	4	4	4	9	9	38	36	36	36	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	SPRING COTTER	NB 338750P0218	HTGR308410				W22		6	3	3	20	21	63	61	61	61	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	DOWEL PIN	NB 338750P0214	HTGR308410				W22		4	2	2	20	21	42	41	41	41	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	CIRCLIP RING	NB 335850P0106	HTGR308410				W22		12	6	6	1	1	6	6	6	6	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	CIRCLIP RING	NB 335850P0107	HTGR308410				W22		30	15	15	5	5	78	75	75	75	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	CIRCULAR SPRING	NB 435160P0003	HTGR308410				W24		8	4	4	187	194	777	747	747	747	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	LOCK WASHER	NB 336850P2034	HTGR308410				W22		6	4	4	34	36	143	138	138	138	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.4.4.d	SERVOMOTOR BASIC ELEMENTS	DIAPHRAGM	HTGA414468P0001	HTGR308410	30			W24		2	2	2	264	274	549	527	527	527	By ordering OPTION 1 or 2c or 2d part should be removed (Options not chosen)
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	LEVER	HTGD125560P0002	HTGD090291	3			W38	525402	4	1	1	15,303	15,928	15,928	15,303	15,303	15,303	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	SPINDLE	HTGR306544P0001	HTGD090291	5			W34	115214	2	1	1	5,185	5,397	5,397	5,185	5,185	5,185	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	BOLT	R 501503P0001	HTGD090291	6			W30	626473	2	1	1	2,015	2,097	2,097	2,015	2,015	2,015	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	BUSH	R 405487P0001	HTGD090291	7			W30	626473	2	1	1	1,676	1,697	1,697	1,676	1,676	1,676	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	FLAP DISC	HTGD339008P0002	HTGD090291	4			W32	626473	2	1	1	10,592	11,024	11,024	10,592	10,592	10,592	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	PIN	HTGA411757P0003	HTGD090291	10			W30		1	1	1	176	183	183	176	176	176	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	PIN	HTGA411757P0002	HTGD090291	12			W30	626473	2	1	1	221	221	202	202	202	202	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	BUSH	HTGA411948P0001	HTGD090291	11			W30	626473	2	1	1	1,259	1,311	1,311	1,259	1,259	1,259	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	BUSH	R 50212P0001	HTGD090291	13			W32		2	1	1	4,741	4,934	4,934	4,741	4,741	4,741	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	WIPER	HTGD458454P0003	HTGD090291	31			W32	525405	2	1	1	1,038	1,081	1,081	1,038	1,038	1,038	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	PIN	HTGD458454P0003	HTGD090291	32			W34	626473	2	1	1	382	398	398	382	382	382	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	BUSH	HTGD458454P0001	HTGD090291	33			W30	626473	2	1	1	1,347	1,402	1,402	1,347	1,347	1,347	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	RING WIPER	R 40887P00004	HTGD090291	26			W24	525404	2	1	1	585	609	609	585	585	585	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	SPRING COTTER	NB 338750P0216	HTGD090291	24			W36		2	2	2	8	8	16	15	15	15	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2.c	NONRETURN FLAP	GASKET	GMD0924481P0011	HTGD090291	28			W22	525404	4	4	4	50	52	210	201	201	201	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature Item	Lead Time (Weeks)	OPG CAT ID's	Single unit installed QTY	U2 Recom'd QTY	U3 Rec'd QTY	U4 Rec'd QTY	Single price ea part, U 1/2/4	Single price ea part, U 2	U2 Total Price	U3 Total Price	U4 Total Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	NONRETURN FLAP	ROLLING MEMBRANE	R 40540P0004	HTGD690291	29	W22	203776.4	2	2	2	2	1,245	1,290	2,582	2,490	2,490	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	NONRETURN FLAP	EXPANSION STUD	TGD 21895P0001	HTGD690291	19	W22		16	8	8	8	39	40	322	310	310	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	NONRETURN FLAP	HEXAGONAL NUT	HZN 40178P0023	HTGD690291	20	W22	575403.4	16	8	8	8	14	27	219	210	210	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	SERVOMOTOR	SCRAFER RING	R 405420P003	HTGD690291	36	W24	253777.4	4	2	2	2	277	284	576	553	553	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	SERVOMOTOR	DU-BUSH	R 302530P0158	HTGD690291	35	W22	115121.3	2	1	1	1	9	10	10	9	9	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	SERVOMOTOR	LOCK NUT	NB 306530P0022	HTGD690291	41	W22	575409.3	2	1	1	1	21	22	22	21	21	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	PILOT RELAY	ROLLING MEMBRANE	R 40540P0004	HTGD690291	66	W26	203781.3	2	1	1	1	1,073	1,117	1,117	1,073	1,073	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	PILOT RELAY	O-RING	R 403028P0015	HTGD690291	60	W22		4	2	2	2	8	8	15	15	15	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	PILOT RELAY	DU-BUSH	R 302530P0125	HTGD690291	71	W22	575387.4	2	1	1	1	14	15	15	14	14	
Turbine & Aux	NK38-SOW-41000-10002	2.5.2 c	PILOT RELAY	DU-BUSH	R 302530P0092	HTGD690291	62	W22		4	2	2	2	9	6	6	6	6	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	LEVER	HTGD125547P0002	HTGD690291	3	W42	575121.3	4	1	1	1	9,629	10,022	10,022	9,629	9,629	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	FLAP DISC	HTGD13948P0002	HTGD690291	4	W36	575388.3	4	1	1	1	13,829	14,185	14,185	13,829	13,829	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	SPINDLE	HTGD3026547P0002	HTGD690291	5	W28	570483.4	4	1	1	1	4,333	4,510	4,510	4,333	4,333	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	SHAFT	R 302856P0001	HTGD690291	6	W28	575214.3	4	1	1	1	2,000	2,082	2,082	2,000	2,000	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	BOLT	R 501632P0001	HTGD690291	7	W30	575215.3	4	1	1	1	1,038	1,080	1,080	1,038	1,038	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	BUSH	R 405801P0001	HTGD690291	8	W32	575216.3	8	2	2	2	1,935	1,919	9,294	9,111	9,111	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	PIN	HTGD411942P0002	HTGD690291	10	W34	575218.3	4	1	1	1	193	200	200	193	193	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	PIN	HTGD411943P0003	HTGD690291	12	W34	575219.3	4	1	1	1	163	170	170	163	163	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	BUSH	HTGD411953P0001	HTGD690291	11	W36	575219.3	4	1	1	1	815	848	848	815	815	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	BUSH	TGR 305096P0001	HTGD690291	13	W34	570484.3	4	1	1	1	6,666	6,918	6,918	6,666	6,666	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	NUT	HTGD458558P0001	HTGD690291	31	W26	575230.3	4	1	1	1	1,304	1,357	1,357	1,304	1,304	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	PIN	HTGD458559P0001	HTGD690291	32	W24	575232.3	4	1	1	1	286	308	308	286	286	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	BUSH	HTGD458560P0001	HTGD690291	33	W32	575233.3	4	1	1	1	2,000	2,082	2,082	2,000	2,000	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	RING NUT	R 408879P0009	HTGD690291	26	W32	575229.3	4	1	1	1	1,259	1,311	1,311	1,259	1,259	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	SPRING COTTER	NB 308750P016	HTGD690291	24	W24		4	4	4	4	6	6	24	23	23	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	SEAL RING	TGD 430935P0002	HTGD690291	35	W24		8	2	2	2	274	285	570	548	548	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	GASSET	GM00924483P0013	HTGD690291	28	W22	623222.4	8	8	8	8	50	52	419	403	403	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	ROLLING MEMBRANE	R 40540P0006	HTGD690291	29	W22	575234.3	4	4	4	4	1,057	1,100	4,399	4,227	4,227	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	EXPANSION STUD	TGD 21895P0001	HTGD690291	87	W22	460623.3	48	12	12	12	25	26	314	302	302	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	HEXAGON SOCKET HEAD NUT	TGD 432468P0001	HTGD690291	88	W22		48	12	12	12	99	97	1,162	1,116	1,116	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	EXPANSION STUD	TGD 21895P0002	HTGD690291	19	W22	575235.3	48	12	12	12	23	24	290	279	279	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	NONRETURN VALVE	HEXAGONAL NUT	HZN 40178P0023	HTGD690291	20	W22	575235.3	48	12	12	12	99	97	1,162	1,116	1,116	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	SERVOMOTOR	WIPER	R 405420P005	HTGD690291	36	W22	578215.3	8	8	8	8	141	146	1,172	1,126	1,126	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	SERVOMOTOR	DU-BUSH	R 302530P0222	HTGD690291	35	W22	575378.3	4	4	4	4	21	22	89	86	86	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	SERVOMOTOR	LOCK NUT	NB 306530P0029	HTGD690291	41	W22	575381.3	4	4	4	4	14	15	60	57	57	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	PILOT RELAY	ROLLING MEMBRANE	R 40540P0003	HTGD690291	66	W26	203781.3	4	4	4	4	1,073	1,117	4,495	4,293	4,293	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	PILOT RELAY	O-RING	R 403028P0015	HTGD690291	60	W22	163021.4	8	8	8	8	8	8	63	60	60	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	PILOT RELAY	DU-BUSH	R 302530P0125	HTGD690291	71	W22	576209.3	4	4	4	4	14	15	60	57	57	
Turbine & Aux	NK38-SOW-41000-10002	2.1.2 c NK38-41800-10001	PILOT RELAY	DU-BUSH	R 302530P0092	HTGD690291	62	W22	576209.3	4	4	4	4	6	6	24	23	23	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

Back to Base Scope Summary										Total	5,464,325			
Worksheet 11 ST Recomm Spares										Subtotal	5,464,325			
SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	3.4.1_b or 2.4.1 g	PARTS FOR PRESSURE TEST	DIFFUSER	HTGR002706R0001	HTGD690215	2	W50	203418	4		144,850		
Turbine & Aux	NK38-SOW-41000-10002	3.4.1_b or 2.4.1 g	PARTS FOR PRESSURE TEST	SPEC EXPANSION STUD	HTGR413928P0001	HTGD690215	19	W32		48	12.00	149	1,788	
Turbine & Aux	NK38-SOW-41000-10002	3.4.1_a or 2.4.1 g	PARTS FOR PRESSURE TEST	EXPANSION STUD	TGD 218960P0002	HTGD 90167	1	W26		40	10.00	175	1,750	
Turbine & Aux	NK38-SOW-41000-10002	3.4.1_a or 2.4.1 g	PARTS FOR PRESSURE TEST	MEASURING STUD	HTGD327259R0002	HTGD 90167	2	W32	203457 4	8		1,058		
Turbine & Aux	NK38-SOW-41000-10002	3.4.1_a or 2.4.1 g	PARTS FOR PRESSURE TEST	HEXAGON SOCKET HEAD NUT	TGD 327809P0001	HTGD 90167	9	W22		48		186		
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	COVER WITH BUSHES	BELL GUIDE	HTGR308592R0001	HTGD690215	79	W46	203451 4	2.00		32,013	64,027	
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	COVER WITH BUSHES	BUSH	HTGR307908R0001	HTGD690215	78	W40	203449 4	2		18,821	37,642	
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	VALVE BONNET COMPL	VALVE BELL	HTGR003627R0001	HTGD690215	31	W40	203443 3	4		77,556		
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_b or 2.4.1 g	INLET VALVE	STEM COUPLING	HTGR202819R0005	HTGD690215	88-90	W36		4		7,673		In case of a new servo this part should be deleted
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	MAIN CLOSURE INSTALLATION	VALVE SPINDLE	HTGR104669P0001	HTGD690215	3	W36	203425	4	1	22,604	22,604	Main stop side
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	MAIN CLOSURE INSTALLATION	VALVE BODY	HTGR103615P0001	HTGD690215	6	W36	203436 3	4	1	35,004	35,004	Main stop side
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	MAIN CLOSURE INSTALLATION	BOLT	HTGR415005P0004	HTGD690215	11	W30	574217 4	4		897		Main stop side
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	MAIN CLOSURE INSTALLATION	SPINDLE CARRIER	HTGR003591P0001	HTGD690215	4	W36	476044	4	1	62,636	62,636	Main stop side
Turbine & Aux	NK38-SOW-41000-10002	3.4.1_c	MAIN CLOSURE INSTALLATION	MAIN CLOSURE INSTALLATION	HTGR003602R0004	HTGD690215		W32	203422	4		157,067		
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	INLET VALVE	PRESSURE BUSH	HTGR204971P0001	HTGD690215	13	W40	203433	4	1	22,396	22,396	
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	INLET VALVE	HEXAGON SCREW WITH STUB	NBT 403026P1327	HTGD690215	23	W24		80	10	201	2,012	Why only 48 Identified / 80 installed is correct
Turbine & Aux	NK38-SOW-41000-10002	2.4.1_g	INLET VALVE	HEXAGONAL NUT	HZN 401736P0026	HTGD690215	22	W24		80	10	29	285	
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_b or 2.4.1 g	INLET VALVE	COUPLING	R 408507R0001	HTGD690215	83-85	W32		4		6,097		
Turbine & Aux	NK38-SOW-41000-10002	3.4.1_d	INLET VALVE	VENTILGLOCKE KOMPL	HTGR003602R0003	HTGD690215	29-34	W13		4	2	251,588	503,175	
Turbine & Aux	NK38-SOW-41000-10002	3.4.1_e	STEAM STRAINER	STEAM STRAINER	HTGR103619R0001	HTGD690215		W36	203452	8	1	58,735	58,735	
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_c	SERVOMOTOR	SET OF CUP SPRINGS COMPL	HTGR205315R0001	HTGD690139	77	W42		4		23,899		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_d	DOUBLE PILOT SYSTEM	CONTROL BUSH	HTGR002729R0001	HTGD690139	161	W42		4		30,067		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_D	DOUBLE PILOT SYSTEM	GATE VALVE	HTGR309216R0004	HTGD690139	103	W32		4		3,392		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_E	DOUBLE PILOT SYSTEM	CONTROL SPRING CPL	HTGR103779R0002	HTGD690139	109	W32		4		694		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_D	DOUBLE PILOT SYSTEM	O-RING	R 403028P0070	HTGD690139	129	W22		4		66		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_D	DOUBLE PILOT SYSTEM	O-RING	R 403028P0080	HTGD690139	132	W28		4		110		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_D	DOUBLE PILOT SYSTEM	O-RING	R 403028P0020	HTGD690139	133	W22		16		4		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_D	DOUBLE PILOT SYSTEM	O-RING	R 403028P0071	HTGD690139	134	W22		4		81		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_C	DOUBLE PILOT SYSTEM	STANDARD PRESSURE SPRING	NB 434441P0491	HTGD690139	144	W20		4		163		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_C	DOUBLE PILOT SYSTEM	STANDARD PRESSURE SPRING	NB 434441P1532	HTGD690139	145	W20		4		352		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_D	DOUBLE PILOT SYSTEM	SPRING COTTER	NB 338750P0317	HTGD690139	148	W28		4		1		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_d	DOUBLE PILOT SYSTEM	COTTER	NB 338150P0416	HTGD690139	146	W26		4		1		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_d	DOUBLE PILOT SYSTEM	CIRCLIP RING	GMN 435154P0232	HTGD690139	149	W24		4		4		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_d	DOUBLE PILOT SYSTEM	LOCKING RING	NB 435110P0180	HTGD690139	152	W20		4		40		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_d	DOUBLE PILOT SYSTEM	LOCKING RING	NB 435110P0080	HTGD690139	151	W24		4		4		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_d	DOUBLE PILOT SYSTEM	LOCKING RING	NB 435110P0060	HTGD690139	150	W30		4		6		By ordering OPTION 2a or 2b or 2c or 2d part should be removed. Option 2a selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.3_c	SERVOMOTOR	SET OF CUP SPRINGS COMPL.	HTGR204806R0005	HTGD690136	75	W15		4	1	15,103	15,103	
Turbine & Aux	NK38-SOW-41000-10002	3.4.2 a or 2.4.2 c & d	PIVOTED FLAP	EXPANSION STUD	HTGR104681P0001	HTGD690226	7	W32		12	2	8,316	16,631	
Turbine & Aux	NK38-SOW-41000-10002	3.4.2 a or 2.4.2 c & d	PIVOTED FLAP	EXPANSION STUD	HTGR104681P0002	HTGD690226	8	W32		12	2	8,025	16,051	
Turbine & Aux	NK38-SOW-41000-10002	3.4.3 b or 2.4.2 c & d	PIVOTED FLAP	SELF ALIGN. ROLLER BEARING	HTGR417731P0001	HTGD690226	31	W32		24	12	6,366	76,395	this represents only 50%
Turbine & Aux	NK38-SOW-41000-10002	3.4.2 C	PIVOTED FLAP	SPACER RING	HTGR417759P0001	HTGD690226	17	W32		12	14	5,397	32,379	this represents only 50%
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	SPRING-LOADED BRAKE	SCREW W. HEXAGONAL REC.HOL	NB 315858P0361	HTGR90117	108	W22		48	14	141	1,973	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	SPRING-LOADED BRAKE	EXPANSION SCREWED BOLT	TGD 222061P0005	HTGR90117	112	W24		48	14	4	55	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	SPRING-LOADED BRAKE	HEXAGONAL NUT	NB 332600P0116	HTGR90117	113	W24		12	12	35	423	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	SPRING-LOADED BRAKE	LOCKING RING	NB 435106P0042	HTGR90117	111	W26	575380 4	12	12	1		
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	SPRING-LOADED BRAKE	DOWEL PIN	WMN 400154P0840	HTGR90117	109	W22		6	6	58	348	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	VALVE	O-RING	R 403028P0073	HTGR 90116	42	W22		6	6	228	1,369	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	VALVE	O-RING	R 403028P0063	HTGR 90116	32	W22		6	6	60	357	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	VALVE	O-RING	R 403028P0038	HTGR 90116	41	W22		6	6	7	40	
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	VALVE	O-RING	R 403028P0010	HTGR 90116	22	W22	161144 4	6	6	2,468		
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	VALVE	WAY VALVE 4/2	HTGR311058P2120	HTGR 90116	331	W26		6	6	436		
Turbine & Aux	NK38-SOW-41000-10002	2.4.2 h	VALVE	SET OF GASKETS	HTGR311058P0010	HTGR 90116	331	W24		1800	80	176	14,096	
Turbine & Aux	NK38-SOW-41000-10002	3.4.4 a or 2.4.2 f	SET OF CUP SPRINGS	CUP SPRING	R 404826P0027	HTGR 90111	321	W32		12	6	892	5,350	
Turbine & Aux	NK38-SOW-41000-10002	3.4.4 b or 2.4.4 d	SERVOMOTOR	BALL-AND-SOCKET JOINT	R 408779P0004	HTGR 90111	64	W26		24	12	560	6,720	
Turbine & Aux	NK38-SOW-41000-10002	3.4.4 b or 2.4.4 d	SERVOMOTOR	BALL-AND-SOCKET JOINT	R 408779P0001	HTGR 90111	513	W24						By ordering OPTION 1 or 2c or 2d part should be removed Option not selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.4_c	PILOT CONTROL	CONTROL BUSH	HTGR205503P0001	HTGR 90113	21	W32		6	2	14,648	29,296	By ordering OPTION 1 or 2c or 2d part should be removed Option not selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.4_d	PILOT CONTROL	REGULATING SLIDE	HTGR205504R0001	HTGR 90113	22	W32		6	2	15,110	30,221	By ordering OPTION 1 or 2c or 2d part should be removed Option not selected
Turbine & Aux	NK38-SOW-41000-10002	3.4.4_e	PILOT CONTROL	SPRING TENSION	HTGR308934R0001	HTGR 90113	301	W32		6	2	7,555	15,110	By ordering OPTION 1 or 2c or 2d part should be removed Option not selected
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	EXPANSION STUD	TGD 118199P0104	HTGD90168	1	W26		62	6	3,462	20,770	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	NUT W. HEX. RECESSED HOLE	TGD 222076P0001	HTGD90168	8	W26		62	6	1,330	7,979	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	GASKET	GMD0924627P0016	HTGD90168	16	W22		62	62	42	2,623	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	EXPANSION STUD	TGD 118200P0105	HTGD90168	1	W26		4	2	4,394	8,789	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	EXPANSION STUD	TGD 118200P0108	HTGD90168	1	W26	197357 3	4	2	5,192	10,385	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	EXPANSION STUD	TGD 118200P0109	HTGD90168	1	W26		4	2	5,657	11,314	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	NUT W. HEX. RECESSED HOLE	TGD 222077P0001	HTGD90168	8	W26		12	6	1,879	11,271	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	GASKET	GMD0924627P0017	HTGD90168	16	W22		12	12	42	507	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	EXPANSION STUD	TGD 118201P0110	HTGD90168	1	W26		4	2	8,507	17,013	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	NUT W. HEX. RECESSED HOLE	TGD 222078P0001	HTGD90168	8	W26		4	2	2,639	5,277	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	GASKET	TGD 432670P0002	HTGD90168	16	W22		4	4	67	270	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	EXPANSION STUD	TGD 118195P0101	HTGD90168	1	W26		80	10	781	7,809	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	EXPANSION STUD	TGD 218954P0102	HTGD90168	1	W24		64	10	114	1,140	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-OUTER CASING	NUT W. HEX. RECESSED HOLE	HTGD327807P0001	HTGD90168	8	W26	203605 3	72	10	285	2,849	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	CLAW SUPPORT	SLIDING PLATE	GMD2217137P0001	HTGD690031	1	W30		8	8	1,794	14,354	HP outer casing
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	CLAW SUPPORT	SLIDING PIECE	HTGD336624P0001	HTGD690031	3	W28		8	8	2,132	17,055	HP outer casing
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	CLAW SUPPORT	COUNTERSINK SCREW	HTGD451683P0001	HTGD690031	4	W22	486543 3	8	4	129	515	HP outer casing
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	CLAW SUPPORT	SCREW W. HEXAGONAL REC.HOL	HZN 401684P1419	HTGD690031	5	W24		8	4	139	557	HP outer casing
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	HP CASING SUPPORT	SLIDING PIECE	HTGD451723P0001	HTGD90381	16	W28		6	2	1,102	2,204	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	HP CASING SUPPORT	SCREW W. HEXAGONAL REC.HOLE	NB 315857P0416	HTGD90381	20	W22	865643 4	12	6	1	6	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	SUPPORT	SLIDING PLATE	HTGD451648P0001	HTGD90381	17	W28		4	2	1,879	3,757	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	SUPPORT	SLIDING PIECE	HTGD451723P0001	HTGD90381	16	W28		6	2	1,102	2,204	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	SUPPORT	SCREW W. HEXAGONAL REC.HOL	NB 315857P0414	HTGD90381	19	W22	665043 4	8	4	7	30	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	SUPPORT	SCREW W. HEXAGONAL REC.HOLE	NB 315857P0416	HTGD90381	20	W22		12	6	1	6	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	SUPPORT	PIN	TGD 431399P0001	HTGD90381	18	W24		4	2	127	253	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_g	ADJUSTING BOLT	GASKET	HTGD447722P0001	HTGD90140	8	W22	665645 4	2	2	175	350	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	EXPANSION SCREWED BOLT	HTGD118273P0102	HTGD90168	3	W26		10	2	9,284	18,575	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	NUT W. HEX. RECESSED HOLE	TGD 222056P0002	HTGD90168	7	W26		20	2	4,665	9,330	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	LOCKING KEY	HTGD432858P0002	HTGD90168	9	W28		20	2	1,435	2,871	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	EXPANSION SCREWED BOLT	HTGD118272P0102	HTGD90168	3	W26		12	2	8,443	16,886	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	NUT W. HEX. RECESSED HOLE	TGD 222056P0002	HTGD90168	7	W26	203613 3	24	2	3,546	7,092	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	LOCKING KEY	HTGD432857P0002	HTGD90168	9	W28		24	2	1,499	2,997	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	EXPANSION STUD	TGD 118199P0104	HTGD90168	1	W26		8	2	3,462	6,923	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	EXPANSION STUD	TGD 118199P0109	HTGD90168	1	W28		4	2	5,277	10,554	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_d	HP-INNER CASING	NUT W. HEX. RECESSED HOLE	TGD 222054P0002	HTGD90168	7	W26	203611 4	12	2	2,660	5,319	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.g	CLAW SUPPORT	SLIDING PIECE	HTGD336624P0001	HTGD690031	3	W28		8	4	2,132	8,528	HP Inner casing
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.g	CLAW SUPPORT	SLIDING PLATE	GMD2217137P0001	HTGD690031	1	W30	486543.3	8	4	1,794	7,177	HP Inner casing
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.g	CLAW SUPPORT	COUNTERSUNK SCREW	HTGD451683P0001	HTGD690031	4	W22		8	4	129	515	HP Inner casing
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.g	CLAW SUPPORT	SCREW W.HEXAGONAL REC.HOL	HZN 401684P1419	HTGD690031	5	W24		8	4	139	557	HP Inner casing
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.e or 2.1.1.e	CLAW SUPPORT	SEAL RING	GMD2161291P0001	HTGD90143	3	W34	588160	10	2	11,799	23,599	Gland segments supplied in rows
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	SCREW W.HEXAGONAL REC.HOL	HZN 401684P1413	HTGD90143	19	W24	588160.4	12	6	77	460	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	STOP SCREW	D 430470P0002	HTGD90143	7	W22	674259.4	44	10	38	381	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	SCREW WITH HOLE	HTGD017620P0010	HTGD90143	16	W24		4	2	264	528	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	HEXAGON HEAD SCREW	HZN 401683P1822	HTGD90143	35	W22		4	2	245	490	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	WIRE	D 414967P0105	HTGD90143	34	W22		1	1	42	42	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	SCREW WITH HOLE	HTGD017620P0013	HTGD90143	17	W24		4	2	232	464	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.e or 2.1.1.e	HP-SHAFT SEAL	SEAL RING	GMD2161291P0001	HTGD90143	3	W34	588160	10	2	11,799	23,599	Gland segments supplied in rows
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	SCREW W.HEXAGONAL REC.HOL	HZN 401684P1413	HTGD90143	19	W24	588160.4	12	6	77	460	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	STOP SCREW	D 430470P0002	HTGD90143	7	W22	674259.4	44	10	38	381	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	SCREW WITH HOLE	HTGD017620P0010	HTGD90143	16	W24		4	2	264	528	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	HEXAGON HEAD SCREW	HZN 401683P1822	HTGD90143	35	W22		4	2	245	490	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	WIRE	D 414967P0105	HTGD90143	34	W22		1	1	42	42	
Turbine & Aux	NK38-SOW-41000-10002	2.1.1.i	HP-SHAFT SEAL	SCREW WITH HOLE	HTGD017620P0013	HTGD90143	17	W24		4	2	232	464	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	GUIDE BUSHING	HTGD227670P0001	HTGD90158	3	W36		4	2	13,636	27,272	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	GUARD RING	HTGD332438P0001	HTGD90158	1	W32		4	2	10,026	20,053	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	DOWEL PIN	HTGD445650P0001	HTGD90158	9	W22		16	8	87	693	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	GUARD RING	HTGD332439P0001	HTGD90158	7	W32		4	2	6,776	13,551	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	GUIDE RING	HTGD332441P0001	HTGD90158	5	W32		8	4	9,836	39,346	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	DOWEL PIN	HTGD440824P0001	HTGD90158	13	W22		8	8	87	693	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	DOWEL PIN	HTGD440824P0002	HTGD90158	15	W26		8	8	112	896	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	DOWEL PIN	HTGD445651P0001	HTGD90158	18	W26		8	8	127	1,013	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.b	SEALINGS	DOWEL PIN	HTGD445650P0002	HTGD90158	10	W26		16	16	127	2,027	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SEALINGS	DOWEL PIN	TGD 440820P0003	HTGD90158	9	W26		8	8	133	1,063	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SEALINGS	GUIDE BUSHING	HTGD227957P0004	HTGD90158	3	W36		2	1	9,667	9,667	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SEALINGS	DOWEL PIN	TGD 440820P0001	HTGD90158	10	W26		12	12	133	1,595	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SET OF SEALING RING	GUIDE RING	HTGD122533P0028	HTGD90158	5	W32		4	2	3,419	6,839	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SET OF SEALING RING	GUARD RING	HTGD122533P0020	HTGD90158	7	W32		2	1	2,448	2,448	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SEALINGS	DOWEL PIN	TGD 440820P0003	HTGD90158	9	W26		8	8	133	1,063	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SEALINGS	GUIDE BUSHING	HTGD227957P0007	HTGD90158	3	W36		2	1	12,201	12,201	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SEALINGS	DOWEL PIN	TGD 440820P0001	HTGD90158	10	W26		12	12	133	1,595	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SET OF SEALING RING	GUIDE RING	HTGD122533P0031	HTGD90158	5	W30		4	2	4,412	8,823	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.1.1.c or 2.1.1.f	SET OF SEALING RING	GUARD RING	HTGD122533P0023	HTGD90158	7	W30		2	1	3,462	3,462	only 50% considered
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	HORIZONTAL TUBE	COMPENSATOR	HTGD018465P0001		W56			8		92,383		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	VERTICAL TUBE	COMPENSATOR	HTGD018466P0001		W56			4		118,394		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	CROSS- OVER PIPE,LEFT	FLAT GASKET	HTGD337225R0001		W22			1		2,529		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	CROSS- OVER PIPE,LEFT	GASKET	HTGD018001P0017		W22			2		807		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	CROSS- OVER PIPE,LEFT	EXPANSION BOLT	TGD 222064P0005		W26			80		179		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	CROSS- OVER PIPE,LEFT	HEXAGON SOCKET HEAD NUT	TGD 327807P0001		W22			160		140		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	COMPENSATOR	COMPENSATOR	HTGD018464P0001		W56			6		215,262		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	FLAT GASKET	HTGD337225R0001		W22			1		2,529		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	GASKET	HTGD018001P0017		W22			2		807		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	EXPANSION BOLT	TGD 222064P0005		W26			80		179		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	HEXAGON SOCKET HEAD NUT	TGD 327807P0001		W22			160		140		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW PIPE,LEFT	FLAT GASKET	HTGD337225R0001		W22			1		2,529		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW PIPE,LEFT	GASKET	HTGD018001P0017		W22			2		807		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW PIPE,LEFT	EXPANSION BOLT	TGD 222064P0005		W26			80		179		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW PIPE,LEFT	HEXAGON SOCKET HEAD NUT	TGD 327807P0001		W22			160		140		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	FLAT GASKET	HTGD337225R0001		W22			1		2,529		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	GASKET	HTGD018001P0017		W22			2		807		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	EXPANSION BOLT	TGD 222064P0005		W26			80		179		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	HEXAGON SOCKET HEAD NUT	TGD 327807P0001		W22			160		140		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW PIPE,LEFT	FLAT GASKET	HTGD337225R0001		W22			1		2,529		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW PIPE,LEFT	GASKET	HTGD018001P0017		W22			2		807		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW PIPE,LEFT	EXPANSION BOLT	TGD 222064P0005		W26			80		179		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW PIPE,LEFT	HEXAGON SOCKET HEAD NUT	TGD 327807P0001		W22			160		140		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	FLAT GASKET	HTGD337225R0001		W22			1		2,529		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	GASKET	HTGD018001P0017		W22			2		807		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	EXPANSION BOLT	TGD 222064P0005		W26			80		179		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	OVERFLOW LINE RIGHT	HEXAGON SOCKET HEAD NUT	TGD 327807P0001		W22			160		140		
Turbine & Aux	NK38-SOW-41000-10002	3.5.1.a	INLET SECTION	COMPENSATOR	HTGD018463P0001		W56			6		74,426		Cross over lines between MSR &LP
Turbine & Aux	NK38-SOW-41000-10002	3.2.1.b	LP-INLET SECTION	COMPENSATOR	HTGD124140R0001		W56			6		146,198		Cross over lines between MSR &LP
Turbine & Aux	NK38-SOW-41000-10002	3.2.1.b	LP-OUTER CASING COMPL	SEAL RING	HTGD335961P0002	HTGD690157	175	W28		12	12	3,855	46,256	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1.b	LP-OUTER CASING COMPL	GASKET	HTGD450010P0001	HTGD690157	41	W24		6	6	412	2,470	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1.b	LP-OUTER CASING COMPL	HEXAGON HEAD SCREW	NB 312431P0573	HTGD690157	40	W22		120	10	11	109	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature Item	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTER CASING COMPL	GASKET	D 325920P0013	HTGD690157	128	W24		12	12	405	4,857	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTER CASING COMPL	HEXAGON HEAD SCREW	NB 312331P0514	HTGD690157		W26		192	60	7	423	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTER CASING COMPL	GASKET	GMD0924612P0106	HTGD690157	127	W24		6	6	95	568	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTER CASING COMPL	HEXAGON HEAD SCREW	NB 312333P0454	HTGD690157	133	W22		48	16	3	48	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTER CASING COMPL	SCREW W.HEXAGONAL REC HOLE	NB 315857P0624	HTGD690157		W30		168	50	14	725	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTER CASING COMPL	HEXAGON HEAD SCREW	NB 312431P0626	HTGD690157		W30		24	8	10	83	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTER CASING COMPL	FLAT GASKET	HTGD334800R0001	HTGD690157		W24		6	6	1,070	6,419	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP LONGITUDINAL FRAME	HEXAGON HEAD SCREW	NB 312331P0725	HTGD690157		W24		852	120	40	4,826	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP LONGITUDINAL FRAME	SPECIAL SCREW	HTGD331026P0001	HTGD690157	47	W28	660545 4	96	10	1,584	15,844	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP LONGITUDINAL FRAME	O-RING	R 403028P0033	HTGD690157	48	W22		96	96	16	1,508	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP LONGITUDINAL FRAME	SEAL RING	TGD 430936P0001	HTGD690157		W22		12	12	27	321	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	FRAME	ALLEN SCREW	NB 315857P0726	HTGD690157	45	W22		312	104	35	3,644	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	FRAME	HEXAGON HEAD SCREW	NB 312331P0625	HTGD690157		W30		48	16	21	329	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	FRAME	HEXAGON HEAD SCREW	NB 312331P0725	HTGD690157		W24		276	92	40	3,700	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	COVER LP OUTER CASING	HEXAGON HEAD SCREW	NB 312331P0725	HTGD690157	39	W24	660545 4	300	20	40	804	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	GUIDE CONE	SECHSKANTSCHRAUBE	NB 312331P0721	HTGD690157		W22	660545 4	72	12	136	1,629	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 d or 2.2.1 e	WEDGING	KEY	HTGD443025P0001	HTGD690197	6	W28		12	2	1,132	2,263	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 d or 2.2.1 e	WEDGING	KEY	HTGD443024P0002	HTGD690197	7	W28		12	2	720	1,440	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 d or 2.2.1 e	WEDGING LP OUTER CASING	KEY	HTGD443025P0001	HTGD690197	6	W28		12	2	1,132	2,263	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 d or 2.2.1 e	WEDGING LP OUTER CASING	KEY	HTGD443024P0001	HTGD690194	21	W21		18	18	1,266	22,790	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 d or 2.2.1 e	SUPPORTING BOLT	SLIDING PIECE	GMD2217128P0001	HTGD690194	21	W21	637504 3	6	6	1,266	7,597	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 d or 2.2.1 e	BEARING BOLT	SLIDING PIECE	GMD2217128P0001	HTGD690194	5	W28	637504 3	12	4	3,089	12,355	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 d or 2.2.1 e	SUPPORTING PLATE	SLIDING PAD	HTGD226506P0001	HTGD690157	125	W24		12	12	62	742	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	COVERING LP-LONGITUDINAL-FRAME	O- RING	HAGT439556P0083	HTGD690157		W24		24	24	45		
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	COVERING LP-LONGITUDINAL-FRAME	LOCKING PLATE	HZN 451341P0560	HTGD690157		W24		24	24	262	5,236	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP-BLADE CARRIER	EXPANSION STUD	TGD 218965P0001	HTGD90167	1	W26	203743 3	336	20	247	4,938	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP-BLADE CARRIER	HEXAGON SOCKET HEAD NUT	TGD 327810P0001	HTGD90167	9	W22		336	20	76	1,598	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP-BLADE CARRIER	GASKET	HTGD043101P0001	HTGD690157	136	W24		21	21	16,707	50,122	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP-BLADE CARRIER	SEALING RINGS COMPL	HTGD017094R0001	HTGD690193		W36	699194	3	3	1,049	8,395	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	BLADE CARRIER CASING,MACH	EXPANSION STUD	TGD 118196P0003	HTGD90167	1	W26		84	8	925	7,401	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	BLADE CARRIER CASING,MACH	NUT W. HEX. RECESSED HOLE	TGD 222051P0001	HTGD90167	9	W32		36	6	473	2,839	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	BLADE CARRIER CASING,MACH	EXPANSION STUD	TGD 218966P0004	HTGD90167	1	W26		42	8	412	3,293	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	BLADE CARRIER CASING,MACH	EXPANSION STUD	TGD 218966P0003	HTGD90167	9	W22		102	8	494	3,950	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	BLADE CARRIER CASING,MACH	HEX SOCKET HEAD NUT	TGD 218947P0001	HTGD90167	69	W26		216	36	203	7,322	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	EXPANSION STUD	TGD 218960P0001	HTGD690157	70	W22		216	36	186	6,703	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	HEXAGON SOCKET HEAD NUT	TGD 327809P0001	HTGD690157		W22		24	4	350	1,399	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	SCREWS	HTGD013469P0009	HTGD690157	191	W22		24	4	29	114	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	HEXAGONAL NUT	HZN 401736P0026	HTGD690157	193	W22		24	4	72	577	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	LOCK WASHER	HZN 451341P0865	HTGD690157	194	W24		12	4	10	41	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	LOCKING WASHER	GMN 336944P0512	HTGD690157	195	W20		216	12	175	2,100	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	EXPANSION STUD	TGD 218960P0002	HTGD690157	50	W26		216	12	186	2,234	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	HEXAGON SOCKET HEAD NUT	TGD 327809P0001	HTGD690157	84	W24		240	24	80	1,923	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	CONN.BLADE CARRIER/OVERFLOW LINE	EXPANSION STUD	TGD 218956P0001	HTGD690157	85	W24		240	12	556	6,667	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	INLET CASING	NUT W. HEX. RECESSED HOLE	HTGD334415P0001	HTGD690157		W22		12	4	247	988	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	INLET CASING	HEXAGON SOCKET HEAD NUT	TGD 327810P0001	HTGD690157		W22		84	8	494	3,950	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	INLET CASING	HEX SOCKET HEAD NUT	TGD 218947P0001	HTGD690157		W22		12	4	988	3,951	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	INLET CASING	MEASURING STUD	HTGD327231R0006	HTGD690157		W28		78	8	907	7,254	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	INLET CASING	MEASURING STUD	HTGD327249R0005	HTGD690157		W28	203641 1	6	2	1,461	2,922	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	INLET CASING	MEASURING STUD	HTGD327249R0007	HTGD690157		W28		9	9	39	352	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTLET	SEAL RING	TGD 430939P0001	HTGD690157		W22		36	8	226	1,811	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTLET	EXPANSION STUD	TGD 218965P0005	HTGD90566		W22		36	8	247	1,975	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTLET	HEXAGON SOCKET HEAD NUT	TGD 327810P0001	HTGD90566		W22		9	9	25	223	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTLET	SEAL RING	TGD 430934P0001	HTGD90566		W22		30	8	226	1,811	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	LP-OUTLET	EXPANSION STUD	TGD 218965P0005	HTGD690157		W22		30	8	226	1,975	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	OUTLET CASING	HEXAGON SOCKET HEAD NUT	TGD 327810P0001	HTGD690157		W24		24	8	72	577	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	OUTLET CASING	EXPANSION STUD	TGD 218965P0005	HTGD690157		W22		96	12	226	2,716	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	OUTLET CASING	HEXAGON SOCKET HEAD NUT	TGD 327810P0001	HTGD690157		W22		96	12	247	2,963	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	BLADE RING RIGHT	EXPANSION STUD	TGD 218965P0004	HTGD690157		W28		18	4	329	1,317	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	BLADE RING RIGHT	HEXAGON SOCKET HEAD NUT	TGD 327810P0001	HTGD690157		W22		18	4	247	988	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	BLADE RING LEFT	EXPANSION STUD	TGD 218965P0004	HTGD690157		W28		18	4	329	1,317	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	BLADE RING LEFT	HEXAGON SOCKET HEAD NUT	TGD 327810P0001	HTGD690157		W22		18	4	247	988	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	WATER INJECTION LP CASING	GASKET	NBT 300332P0006	HTGD690157		W24		3	3	41	123	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 b	WATER INJECTION LP CASING	GASKET	NBT 300332P0006	HTGD690157		W24		3	3	41	123	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	SLIDING PIECE	GMD2125275P0001	HTGD90333	3	W24		12	12	419	5,028	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	CROSSHEAD GUIDE	GMD2125269P0001	HTGD90333	1	W24	471261 3	12	12	199	2,393	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	SLIDING PIECE	GMD2125275P0001	HTGD90333	3	W24	471255 3	12	12	419	5,028	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	CROSSHEAD GUIDE	GMD2125269P0001	HTGD90333	1	W24	471261 3	12	12	199	2,393	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	SLIDING PIECE	GMD2125268P0001	HTGD90333	3	W32	471255 3	24	12	198	2,379	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature e ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	CROSSHEAD GUIDE	GMD2125270P0001	HTGD690333	1	W28	463463 3	24	12	558	6,696	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	WEDGING	CROSSHEAD GUIDE	GMD2217135P0001	HTGD690196	2	W24	462862 3	24	6	350	2,059	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	CROSSHEAD GUIDE	GMD2217134P0001	HTGD690196	3	W24		24	6	350	2,059	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	SLIDE ELEMENT	HTGD3295259P0001	HTGD690194	4	W30		12	4	3,498	13,991	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 c or 2.2.1 e	LP CASING SUPPORT	SLIDING PLATE	GMD2217129P0001	HTGD690194	22	W28	581157 3	24	8	2,115	16,921	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	STOP/RETAINING SCREW	D 430470P0001	HTGD690185	12	W22		384	64	29	1,843	part 11 ? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	GASKET	HTGD013499P0013	HTGD690185	14	W30		24	12	51	616	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	HEXAGON HEAD SCREW	NBT 312333P0515	HTGD690185	15	W22		192	24	4	97	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD336598P0001	HTGD690185	18	W26		84	10	80	801	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD336598P0002	HTGD690185	19	W26	605537 3	84	10	80	801	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD336598P0003	HTGD690185	20	W26		36	10	80	801	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD336598P0004	HTGD690185	21	W26		60	10	91	906	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	BALL SEAT	HTGD451921R0001	HTGD690185	22	W30		24		6,378		
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD451801P0001	HTGD690185	23	W26		96	10	30	288	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD451801P0002	HTGD690185	24	W26		96	10	33	328	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD451801P0003	HTGD690185	25	W26		96	10	37	371	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	LOCK WASHER	HZN 451341P0964	HTGD690185	29	W24	605545 3	24	8	66	527	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD443032P0001	HTGD690185	36	W22		60	10	134	1,337	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD443032P0002	HTGD690185	37	W22	605547 3	60	10	134	1,337	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD443032P0003	HTGD690185	38	W22		72	10	134	1,337	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	LOCKING PLATE	HTGD443330P0001	HTGD690185		W24		6		864		
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	LOCKING PLATE	HZN 451341P0760	HTGD690185		W24		6		66		
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD331036P0001	HTGD690185	TO46	W22		168	6	131	786	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD331036P0002	HTGD690185	TO46	W22	605550 3	168	6	329	1,975	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD331036P0003	HTGD690185	TO46	W22		120	6	329	1,975	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD331040P0001	HTGD690185	50	W22		168	6	329	1,975	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD331040P0002	HTGD690185	51	W22		168	6	329	1,975	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	LP GLAND SEALS	SHIM	HTGD331040P0003	HTGD690185	52	W22		120	6	329	1,975	
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	TEMP. MEASURING POINT L P 1	LOCKING SCREW	HTGD455521P0001	HTGD690157	232	W24	605556 3	2	2	412	828	Nomenclature checked and changed from HTGD690153 to HTGD690157
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	TEMP. MEASURING POINT L P 1	EXTERNAL SCREW PART	HTGD438294P0001	HTGD690157	/	W28		4	4	576	2,304	Nomenclature checked and changed from HTGD690153 to HTGD690157
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	TEMP. MEASURING POINT L P 1	SEAL RING	TGD 430934P0001	HTGD690157	/	W22		4	4	25	99	Nomenclature checked and changed from HTGD690153 to HTGD690157
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	TEMP. MEASURING POINT L P 1	SEAL RING	TGD 430936P0001	HTGD690157	239	W22		6	6	27	161	Nomenclature checked and changed from HTGD690153 to HTGD690157
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	TEMP. MEASURING POINT L P 1	TERMINAL FITTING	HTGA401487P0001	HTGD690157	379	W26		12	12	278	3,336	Nomenclature checked and changed from HTGD690153 to HTGD690157
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	TEMP. MEASURING POINT L P 1	THERMOCOUPLE	HTGA402649P0048	HTGD690157	230	W26		2	2	1,646	3,292	Nomenclature checked and changed from HTGD690153 to HTGD690157
Turbine & Aux	NK38-SOW-41000-10002	2.2.1 i	TEMP. MEASURING POINT L P 1	THERMOCOUPLE	HTGA402649P0048	HTGD690157	231	W26		2	2	1,646	3,292	Nomenclature checked and changed from HTGD690153 to HTGD690157
Turbine & Aux	NK38-SOW-41000-10002	3.2.1 D or 2.2.1 e	SUPPORTING BOLT	THRUST PLATE	GMD0118884P0001	HTGD690194	19	W22		18	2	640	1,281	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	SEGMENTAL JOURNAL BEARING	SHIM	HTGD433291R0001	HTGD 90200	9	W24		2	1	1,521	1,521	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	SEGMENTAL JOURNAL BEARING	SHIM	HTGD433291R0002	HTGD 90200	10	W24		1	1	1,426	1,426	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	SEGMENTAL JOURNAL BEARING	OIL WIPER	HTGD222413R0001	HTGD 90200	32	W36		2	2	4,565	9,130	Bearing 1
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0019	HTGD 90200	37	W30	600643 3	36		13		Bearing 1
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING CASING,FRONT	EXPANSION STUD	TGD 118198P0003	HTGD690108		W32		2	1	1,806	1,806	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING CASING,FRONT	NUT W. HEX. RECESSED HOLE	TGD 222053P0001	HTGD690108		W32		2	1	1,331	1,331	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING CASING,FRONT	GASKET	HTGD449417P0001	HTGD690108		W24		2	2	61	122	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING CASING,FRONT	GASKET	HTGD453476P0001	HTGD690108	23	W24		1	1	76	76	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING CASING,FRONT	GASKET	GMD1924502P0037	HTGD690108	30	W22		1	1	15	15	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING CASING,FRONT	GASKET	HTGD443160P0001	HTGD690108	33	W30		2	2	76	152	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	D 422186P0001	HTGD690108	37	W30		1	1	107	107	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	HTGD449977P0001	HTGD690108	39	W30		1	1	107	107	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	HTGD449978P0001	HTGD690108	41	W30		1	1	84	84	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	HTGD453332P0001	HTGD690108	43	W30		1	1	112	112	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	HTCT416632P0136	HTGD690108	45	W32		1	1	228	228	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	D 421527P0002	HTGD690108		W30		2	2	29	57	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	HTGD453480P0001	HTGD690108	48	W30		1	1	68	68	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	HTGD453503P0001	HTGD690108		W30		1	1	68	68	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING COVER	GASKET	HTGD453502P0001	HTGD690108		W22		1	1	78	78	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	LUBE OIL COOLING PIPES	GASKET	D 422176P0001	HTGD690108		W22		1	1	32	32	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	LUBE OIL COOLING PIPES	GASKET	GMD1924503P0019	HTGD690108		W22		11	11	53	585	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	BEARING TEMP.MEASUREMENT	GASKET	GMD1924503P0020	HTGD690108		W22		2	2	29	57	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	KEY WAY BEARING1	SHIM	TGD 432038P0001	HTGD690186	4	W21		4		285		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	KEY WAY BEARING1	SHIM	D 430364P0001	HTGD690186	6	W28		20	6	76	457	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	KEY WAY BEARING1	SHIM	D 430364P0002	HTGD690186	5	W28		16	4	95	380	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 i	OIL WIPER BAFFLE	OIL WIPER BAFFLE	HTGD227025R0003	HTGD690108	189	W36		3	1	3,042	3,042	Includes LH and RH

Alstom
Thermal Power Services
My Department

Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	GASKET	NBT 400289P0040	HTGD690108	T0186	W22		2	2	9	19	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		GASKET	HTGD334946P0001	HTGD690108	53	W22		1	1	141	141	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f	CONTROL UNIT	POCKET-TYP JOURN BEARING	D 007335R0002	HTGD690219		W32		1	1	26,430	26,430	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f		THRUST BEARING	D 116659R0002	HTGD690219		W36		1	1	47,724	47,724	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f	CONTROL UNIT	GASKET	HTGR415088P0001	HTGD690219		W22		1	1	72	72	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f		GASKET	HTGR311293P0001	HTGD690219		W22		1	1	51	51	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f	CONTROL UNIT	GASKET	R 502409P0001	HTGD690219		W22		3	3	32	97	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f		GASKET	HTGR412880P0001	HTGD690219		W22		1	1	125	125	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f	CONTROL UNIT	GASKET	HTGR103703P0001	HTGD690219		W22		1	1	1,711	1,711	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f		SEALING PROFILE	NBT 400212P0006	HTGD690219	75	W22		2	2	188	377	
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 c or 2.3.1 f	CONTROL UNIT	CORRUGATED SEAL RING	NBT 400212P0009	HTGD690219	76	W22		4	4	741	2,966	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		SPEED SENSOR	HTGR310982R0001	HTGD690094	2	W30		3	3	56,547		Part of control upgrade
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	TRANSMITTER ATTACHMENT	SEALING PROFILE	NBT 400212P0004	HTGD690094		W22	203961 3	2	2	120		Part of control upgrade
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		APPROXIMATE TRANSMITTER	HTGR309292R0005			W32		1	1	74,151		Part of control upgrade
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	TRANSMITTER ATTACHMENT	GASKET	NBT 400289P0033			W24		1	1	9		Part of control upgrade
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		GASKET	HTGR419237P0001			W22		1	1	68		Part of control upgrade
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 b or 2.3.1 f	STEERING FORCE	TURBINE PINION	HTGR103399P0001	HTGD690084		W42	203564	1	1	22,357		
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 a or 2.3.1 f		INTERMEDIATE WHEEL	HTGR002428R0001	HTGD690084		W42	203566	1	1	58,591		
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 a or 2.3.1 f	STEERING FORCE	PUMP PINION	HTGR103358P0001	HTGD690084		W42	203567	1	1	25,441		
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 a or 2.3.1 f		PUMP IMPELLER	HTGR103535P0001	HTGD690084		W42	203565	1	1	86,345		
Turbine & Aux	NK38-SOW-41000-10002	3.5.4 a or 2.3.1 f	STEERING FORCE	INTERMEDIATE SHAFT	HTGR103346P0001	HTGD690084		W40		1	1	20,916		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		LOCKING WASHER	NB 336700P0025	HTGD690300	41	W26		64	64	7	425	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0034	HTGD690300	39	W24		2	2	150	300	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		LOCKING WASHER	NB 336700P0028	HTGD690300	40	W22		2	2	65	129	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	FRONT SUPPORT SEGMENT	D 117480R0003	HTGD690222	11	W40	201287	1	1	52,857		
Turbine & Aux	NK38-SOW-41000-10002	3.3 a or 2.3.1 c		REAR SUPPORT SEGMENT	D 117480R0002	HTGD690222	12	W40	201288	1	1	52,857		
Turbine & Aux	NK38-SOW-41000-10002	3.3 a or 2.3.1 c	SINGLE DISC-TYPE THRUST B	CIRCLIP RING	D 009268R0002	HTGD690222	14	W36	201289	1	1	30,041		includes LH & RH
Turbine & Aux	NK38-SOW-41000-10002	3.3 a or 2.3.1 f		CIRCLIP RING	D 009268R0003	HTGD690222	15	W36	201290	1	1	30,041		includes LH & RH
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SINGLE DISC-TYPE THRUST B	SHIM RING	D 117453P0001	HTGD690222	17	W40		1	1	5,894	5,894	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		INTERMEDIATE INSERT RING	D 117465P0002	HTGD690222	21	W22		6	6	6,084	36,505	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SINGLE DISC-TYPE THRUST B	INTERMEDIATE INSERT RING	D 117465P0001	HTGD690222	19	W22		6	6	6,084	36,505	
Turbine & Aux	NK38-SOW-41000-10002	3.3 a or 2.3.1 f		FLOATING RING 2-PARTS	HTGD123918R0002	HTGD690222	53	W36	201291	1	1	13,499	13,499	
Turbine & Aux	NK38-SOW-41000-10002	3.3 a or 2.3.1 f	SINGLE DISC-TYPE THRUST B	FLOATING RING 2-PARTS	HTGD123915R0001	HTGD690222	27	W36	201293	1	1	11,313	11,313	
Turbine & Aux	NK38-SOW-41000-10002	3.3 a or 2.3.1 f		SPACER	D 421243P0001	HTGD690222	5	W28		8	8	353	2,827	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SINGLE DISC-TYPE THRUST B	INTERMEDIATE SHIM	D 503971P0002	HTGD690222	7	W22	655233 3	40	40	182	7,298	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		INTERMEDIATE SHIM	D 503971P0001	HTGD690222	6	W22		40	40	182	7,298	
Turbine & Aux	NK38-SOW-41000-10002	3.3 a or 2.3.1 f	SINGLE DISC-TYPE THRUST B	FLOATING RING 2-PARTS	HTGD123915R0002	HTGD690222	29	W36	201294	1	1	11,313	11,313	
Turbine & Aux	NK38-SOW-41000-10002	3.3 a or 2.3.1 f		FLOATING RING 2-PARTS	HTGD123918R0001	HTGD690222	55	W36	201292	1	1	13,499	13,499	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	THRUST BEARING CASING ANT	GASKET	HTGD445536P0001	HTGD690109	11	W22		4	2	122	243	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		EXPANSION STUD	TGD 118200P0002	HTGD690109	G101	W32		6	1	2,282	2,282	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	THRUST BEARING CASING ANT	NUT W. HEX. RECESSED HOLE	TGD 222055P0001	HTGD690109	G101	W32		6	1	1,902	1,902	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		GASKET	NBT 400289P0068	HTGD690109	15	W22		2	2	247	494	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	THRUST BEARING CASING ANT	GASKET	NBT 400289P0102	HTGD690109		W22		2	2	120	240	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		GASKET	HTGD447692P0001	HTGD690109	14	W22		2	2	76	152	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	THRUST BEARING COVER	GASKET	NBT 400289P0039	HTGD690109	102	W26		4	4	24	94	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		FLAT GASKET	NBT 400289P0059	HTGD690109	102	W22		1	1	3	3	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	JOURNAL BEARING PED. COVER	GASKET	NBT 400289P0033	HTGD690109	104	W24		2	2	9	17	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		GASKET	HTGD449069P0001	HTGD690109	104	W22		4	4	135	540	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	JOURNAL BEARING PED. COVER	SLIDING PIECE	HTGD451124P0001	HTGD 30205		W22		8	8	228		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		OIL RETAINING SHEET	HTGD227024R0001	HTGD690109	143	W36		6	3	3,613	10,838	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	WASHER	HTGD445023R0001	HTGD690109	132	W21		4	4	164	654	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		WASHER	HTGD445025R0001	HTGD690109	133	W24		4	4	951	3,803	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	GASKET	NBT 400289P0040	HTGD690109	141	W22		4	4	9	38	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		OIL WIPER BAFFLE	HTGD227024R0006	HTGD690109	145	W36		6	3	3,803	11,408	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	WASHER	HTGD445023R0001	HTGD690109	132	W21		4	4	164	654	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		WASHER	HTGD445025R0001	HTGD690109	133	W24		4	4	951	3,803	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	GASKET	NBT 400289P0040	HTGD690109	141	W22		4	4	9	38	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		OIL WIPER BAFFLE	88HD228258R0001	HTGD690109	48	W28		1	1	7,001	7,001	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	OIL WIPER BAFFLE	HTGD229762R0001	HTGD690109		W36	680613 3	1	1	5,894	5,894	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		OIL WIPER BAFFLE	HTGD229763R0001	HTGD690109		W36		1	1	5,514	5,514	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	LOCK WASHER	NB 336900P2165	HTGD690109		W28		2	2	82	164	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		LOCK WASHER	NB 336900P0277	HTGD690109		W24		6	6	78	468	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	GASKET	NBT 400289P0030	HTGD690148	4	W24		1	1	5		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		GASKET	NBT 400289P0026	HTGD690148	7	W24		1	1	4		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	GASKET	NBT 400289P0039	HTGD690148	5	W26		1	1	24		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		O-RING	R 403028P0005	HTGD690148	8	W22		1	1	6		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INSTALL OIL THERMOMETER	O-RING	NBT 300281P0323	HTGD 90184	9	W22		1	1	95		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		GASKET	D 420257P0001	HTGD 90184	8	W22		1	1	32		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INSTALL OIL THERMOMETER	GASKET	HTGD447700P0001	HTGD690109	154	W22		1	1	95	95	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f		VISIBLE OIL DRAIN										

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Master Pricing Tables
DPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	VISIBLE OIL DRAIN	LOCK WASHER	NB 336850P2057	HTGD690109	158	W22		4	4	63	251	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	GASKET	HTGD445821P0001	HTGD690109		W22		2	2	42	85	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	GASKET	GMD1924650P1133	HTGD690109		W22		2	2	25	50	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	O-RING	HTGD334398P0003	HTGD690109		W22		4	4	84	334	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	THRUST BEARING PEDESTAL	GASKET	HTGD447700P0001	HTGD690109		W22		1	1	95	95	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0025	HTGD90300	41	W26		64	64	7	425	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0034	HTGD90300	39	W24		2	2	150	300	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0028	HTGD90300	40	W22		2	2	65	129	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	EXPANSION STUD	TGD 118200P0002	HTGD690110	19	W32		6	1	2,282	2,282	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	NUT W. HEX. RECESSED HOLE	TGD 222055P0001	HTGD690110	20	W32		6	1	1,902	1,902	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	GASKET	HTGD445536P0001	HTGD690110		W22		4	4	122	487	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	GASKET	NBT 400289P0068	HTGD690110		W22		2	2	247	494	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	GASKET	NBT 400289P0102	HTGD690110		W22		2	2	120	240	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	JOURNAL BEARING PED. COVER	GASKET	NBT 400289P0033	HTGD690110		W24		2	2	9	17	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	JOURNAL BEARING PED. COVER	GASKET	HTGD449069P0001	HTGD690110		W22		4	4	135	540	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	OIL WIPER BAFFLE	HTGD227024R0006	HTGD690110	121.122	W36		6	3	3,803	11,408	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	WASHER	HTGD445023R0001	HTGD690110	132.133	W21		4	4	164	654	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	WASHER	HTGD445025R0001	HTGD690110	134.138	W24		4	1	951	951	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	GASKET	NBT 400289P0040	HTGD690110	141	W22		4	4	9	38	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	OIL WIPER BAFFLE	B8HD228256R0001	HTGD690110	48	W28		1	1	7,001	7,001	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	VENTILATION PLATE	B8HD228257R0001	HTGD690110	46	W28	680613 3	1	1	7,001	7,001	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	GASKET	NBT 400289P0030	HTGD690148	4	W24	680615 3	1	1	5		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	GASKET	NBT 400289P0026	HTGD690148	7	W24		1	1	4		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	GASKET	NBT 400289P0039	HTGD690148	5	W26		1	1	24		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	O-RING	R 403028P0005	HTGD690148	8	W22		1	1	6		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	VISIBLE OIL DRAIN	LOCK WASHER	NB 336850P2057	HTGD690110	158	W22		4	4	63	251	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	VISIBLE OIL DRAIN	GASKET	HTGD447700P0001	HTGD690110	154	W22		1	1	95	95	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	GASKET	HTGD445821P0001	HTGD690110		W22		1	1	42	42	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	GASKET	GMD1924650P1133	HTGD690110		W22		1	1	25	25	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	O-RING	HTGD334398P0003	HTGD690110		W22		2	2	84	167	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0025	HTGD90300	41	W26		64	64	7	425	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0034	HTGD90300	39	W24		2	2	150	300	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0028	HTGD90300	40	W22		2	2	65	129	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	EXPANSION STUD	TGD 118200P0002	HTGD690110	19	W32		6	1	2,282	2,282	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	NUT W. HEX. RECESSED HOLE	TGD 222055P0001	HTGD690110	20	W32		6	1	1,902	1,902	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	GASKET	HTGD445536P0001	HTGD690110		W22		4	4	122	487	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	GASKET	NBT 400289P0068	HTGD690110		W22		2	2	247	494	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	LP-BEARING CASING	GASKET	NBT 400289P0102	HTGD690110		W22		2	2	120	240	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	JOURNAL BEARING PED. COVER	GASKET	NBT 400289P0033	HTGD690110		W24		2	2	9	17	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	JOURNAL BEARING PED. COVER	GASKET	HTGD449069P0001	HTGD690110		W22		4	4	135	540	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	OIL WIPER BAFFLE	HTGD227024R0006	HTGD690110	121.122	W36		6	1	3,803	3,803	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	WASHER	HTGD445023R0001	HTGD690110	132.133	W21		4	4	164	654	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	WASHER	HTGD445025R0001	HTGD690110	134.138	W24		4	4	951	3,803	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER	GASKET	NBT 400289P0040	HTGD690110	141	W22		4	4	9	38	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	OIL WIPER BAFFLE	B8HD228256R0001	HTGD690110	48	W28		1	1	7,001	7,001	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL WIPER BAFFLE	VENTILATION PLATE	B8HD228257R0001	HTGD690110	46	W28	680613 3	1	1	7,001	7,001	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	GASKET	NBT 400289P0030	HTGD690148	4	W24	680615 3	1	1	5		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	GASKET	NBT 400289P0026	HTGD690148	7	W24		1	1	4		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	GASKET	NBT 400289P0039	HTGD690148	5	W26		1	1	24		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	OIL TEST VALVE	O-RING	R 403028P0005	HTGD690148	8	W22		1	1	6		
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	VISIBLE OIL DRAIN	LOCK WASHER	NB 336850P2057	HTGD690110	158	W22		4	4	63	251	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	VISIBLE OIL DRAIN	GASKET	HTGD447700P0001	HTGD690110	154	W22		1	1	95	95	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	GASKET	HTGD445821P0001	HTGD690110		W22		1	1	42	42	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	GASKET	GMD1924650P1133	HTGD690110		W22		1	1	25	25	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	INTERNAL OIL CONNECTION	O-RING	HTGD334398P0003	HTGD690110		W22		2	2	84	167	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0025	HTGD90300	41	W26		64	64	7	425	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0034	HTGD90300	39	W24		2	2	150	300	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0028	HTGD90300	40	W22		2	2	65	129	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0023	HTGD 90300	41	W26		60	60	13	797	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0025	HTGD 90300	40	W26		2	2	7	13	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0028	HTGD 90300	39	W22		2	2	65	129	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0016	HTGD 90300	5	W22		36	36	13	478	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	LOCKING WASHER	NB 336700P0016	HTGD 90300	5	W22		18	18	13	239	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	SHIM	HTGD440366R0002	HTGD 90200	5	W24		1	1	875	875	
Turbine & Aux	NK38-SOW-41000-10002	2.3.1 f	SEGMENTAL JOURNAL BEARING	SHIM	HTGD440366R0001	HTGD 90200	5	W24		2	2	799	1,597	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	RADIAL JOURNAL BEARING	HTGD0122804R0001	HTGD 90489		W32		1	1	29,311	29,311	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	THRUST BEARING	HTGD0017126R0001	HTGD 90489		W32		1	1	52,949	52,949	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	THRUST BEARING	HTGD0017240R0001	HTGD 90489		W32		1	1	76,587	76,587	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	BEARING SHELL	HTGD0017100R0001	HTGD 90489		W32		1	1	44,440	44,440	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature e ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	KEY	HTGD449423P0001	HTGD 90489	28	W24		1	1	662	662	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	DOWEL PIN	NB 338450P0822	HTGD 90489	35	W24		1	1	567	567	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	DOWEL PIN	NB 338450P0769	HTGD 90489	36	W24		1	1	473	473	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	DOWEL PIN	HTGD451565P0001	HTGD 90489		W22		6	6	176	1,055	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	DOWEL PIN	NB 338450P0719	HTGD 90489		W22		1	1	7	7	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	STRAIGHT PIN	NB 338450P0509	HTGD 90489	24	W26		1	1	7	7	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	DOWEL PIN	HTGD451461P0001	HTGD 90489	37	W22		6	6	149	896	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	HEXAGON HEAD SCREW	NB 312433P0523	HTGD 90489	41	W22		12	6	13	80	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	HEXAGON HEAD SCREW	NB 312433P0478	HTGD 90489	42	W22		6	3	180	539	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	SCREW W.HEXAGONAL REC.HOL	NB 315856P0412	HTGD 90489	43	W22		12	6	1	6	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	HEXAGON HEAD SCREW	NB 312333P0306	HTGD 90489		W22		4	2	1	2	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	CYL-SCREW/HEXAGON SOCKET	NB 315835P0532	HTGD 90489	45	W24		6	3	68	204	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	CYLINDRICAL SCREW	NB 315202P0516	HTGD 90489		W22		2	1	1	1	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	LOCK WASHER	HZN 451341P0661	HTGD 90489	49	W24		12	12	32	387	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BEARING PEDESTAL	EXPANSION STUD	TGD 218960P0004	HTGD338051	32	W24		4	2	137	274	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BEARING PEDESTAL	HEXAGON SOCKET HEAD NUT	TGD 327809P0001	HTGD338051	30	W24		4	2	186	372	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BEARING PEDESTAL	EXPANSION STUD	TGD 218954P0004	HTGD338051	33	W24		4	2	125	250	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BEARING PEDESTAL	HEXAGON SOCKET HEAD NUT	TGD 327807P0001	HTGD338051		W24		4	2	140	281	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	GEAR COMPLETE	PINION SHAFT	HTGD122831P0001	HTGD 90489	19	W42		1		98,322		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	GEAR COMPLETE	GEARWHEEL	HTGD122837P0001	HTGD 90489	20	W42		1		100,222		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	GEAR COMPLETE	PINION SHAFT	HTGD122848P0001	HTGD 90489	21	W57		1	1	161,897	161,897	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	GEAR COMPLETE	GEARWHEEL	HTGD122851P0001	HTGD 90489	22	W42		1	1	259,075	259,075	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	ELCO COUPLING	HTGD334794R0001	HTGD 90489		W24	657813	1	1	23,638	23,638	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	SPUR GEARING	HTGD122988R0001	HTGD 90489	1	W36	674570		1	142,774	142,774	Price have to be checked / Price is for the whole spur gear Unit because the old manufacturer is no more longer available (note Nomenclature drawing Item 57 nomenclature drawing Item 1)
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	VAR. SPEED FLUID COUPLING	HTGD122987R0001	HTGD 90489		W24		1		27,988		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	HEXAGON HEAD SCREW	NB 312431P0626	HTGD 90489	69	W22		4	2	10	21	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	HEXAGON HEAD SCREW	NB 312435P0468	HTGD 90489	70	W22		4	2	78	155	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	SCREW W.HEXAGONAL REC.HOL	NB 315856P0362	HTGD 90489	71	W22		8	4	1	4	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	SUPPORTING SCREW	TGD 326818P0002	HTGD 90489	72	W22		12	6	246	1,475	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	WASHER	NB 335050P0311	HTGD 90489	73	W24		4	4	13	53	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	WASHER	NB 335050P0314	HTGD 90489	74	W24		4	4	125	499	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	GASKET	NBT 400289P0040	HTGD 90489	75	W22		1	1	9	9	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	HEX.LOCKING SCREW	NB 314200P0006	HTGD 90489	76	W22		1	1	529	529	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	SCREW W.HEXAGONAL REC.HOL	NB 315856P0361	HTGD 90489	76	W22		4	2	1	2	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	BARRING GEAR	MOTOR	HTGD334904P0001	HTGD 90489	59	W30	530596	1		25,529		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TURNING GEAR	HELICAL SPRING	TGD 218408P0001	HTGD 90489	17	W36	203569	1	1	74,010	74,010	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TURNING GEAR	THREAD BOLT	HTGD438662P0001	HTGD 90489	26	W30		1	1	851	851	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TURNING GEAR	KEY	HTGD449836P0001	HTGD 90489	27	W24		1	1	1,040	1,040	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TURNING GEAR	SCREW W.HEXAGONAL REC.HOL	NB 315856P0464	HTGD 90489	46	W22		4	2	2	4	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TURNING GEAR	SCREW W.HEXAGONAL REC.HOL	NB 315856P0465	HTGD 90489	47	W22		12	6	6	34	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TURNING GEAR	CIRCLIP RING	NB 335805P0015	HTGD 90489	53	W22		16	16	1	16	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TURNING GEAR	BALANCING SEGMENT	D 418381P0002	HTGD 90489	55	W24		30	30	74	2,211	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY BARRING GEAR	GASKET	HTGD017093P0008	HTGD 90414	77	W22		1	1	56	56	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY BARRING GEAR	GASKET	HTGD017093P0017	HTGD 90414	74	W22		1	1	54	54	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY BARRING GEAR	O-RING	R 403028P0041	HTGD 90414	85	W22		2	2	39	78	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY BARRING GEAR	GASKET	HTGD443274P0001	HTGD 90414		W22		1	1	54	54	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY BARRING GEAR	LIMIT SWITCH	HTGD334299P0001	HTGD 90414	12	W22		2	2	300	600	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY BARRING GEAR	COUPLING SCREW	HTGD014879P0001	HTGD 90203	3	W32		64	16	5,673	90,770	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4. d	LP-ROTOR	COUNTERSUNK NUT	HTGD433158P0001	HTGD 90203	10	W30		64	16	1,177	18,840	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4. d	LP-ROTOR	LOCKING PIN	HTGD433156P0001	HTGD 90203	5	W22		64	32	72	2,300	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4. d	LP-ROTOR	SHEAR BUSH	HTGD336585P0001	HTGD 90203	6	W28		64	64	536	34,319	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4. d	LP-ROTOR	O-RING	R 403028P0029	HTGD 90203	2	W22		64	64	74	4,766	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4. d	LP-ROTOR	PACKING RING	HTGD451218P0006	HTGD 90203	5	W30		128	64	37	2,383	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4. d	LP-ROTOR	SEAL BUSH	HTGD451638P0001	HTGD 90203		W32		56	28	316	8,850	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4. d	LP-ROTOR	SEAL BUSH	HTGD451639P0001	HTGD 90203		W30		8	4	567	2,269	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBE OIL TANK	GASKET	HTGD017875P0005	HTGD690090		W22		2	2	187	374	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBE OIL TANK	GASKET	NBT 400289P0039	HTGD90585		W28		4	4	24	94	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBE OIL TANK	OIL SCREEN COMPL	D 108944R0004	HTGD90585		W32		8		12,595		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	MANN-WET AIR FILTER	MANN-WET AIR FILTER	TGD 326261P0003	HTGD90585		W22		4	2	1,968	3,936	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	STRAINER BASKET	HTGR206240R0001	HTGD690085	9	W40		1		15,744		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	CLUTCH HALF	HTGRA19347P0001	HTGD690085	11	W28		1	1	5,117	5,117	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	COUPLING HALF	HTGRA19281P0001	HTGD690085	10	W28		1	1	3,936	3,936	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	HEXAGON HEAD SCREW	NB 312433P0521	HTGD690085	17	W22		12	12	14	164	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	HEXAGON SCREW	NB 312335P0470	HTGD690085	16	W24		8	8	24	188	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	HEXAGON HEAD SCREW	NB 312433P0517	HTGD690085	21	W22		8	8	10	79	

Alstom
Thermal Power Services
My Department

Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature e ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	HEXAGON HEAD SCREW	NB 312333P0515	HTGD690085	19	W22		12	12	3	36	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	GASKET	GMD0924482P0010	HTGD690085	23	W22		2	2	61	122	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	GASKET	HTGR311253P0001	HTGD690085	24	W22		1	1	689	689	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	HEXAGON HEAD SCREW	NB 312433P0518	HTGD690085	14	W24		4	4	11	43	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	CLAMP	HTGR306279P0001	HTGD690085	33	W32		1	1	3,149		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	WASHER	NB 335050P0112	HTGD690085	34	W24		2	2	6	13	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	SAFETY SHEET	NB 336850P2095	HTGD690085	35	W24		2	2	69	138	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	HEXAGONAL NUT	NB 332600P0116	HTGD690085	18	W22		14	14	4	55	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	HEXAGON HEAD SCREW	NB 312433P0525	HTGD690085	20	W22		2	2	5	10	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	THREADED PIN	HTGR003396P0041	HTGD690085	12	W32		2	2	197	393	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	KEY	HTGR003396P0042	HTGD690085	27	W32		1	1	561	561	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EMERGENCY OIL PUMP	KEY	HTGR003396P0044	HTGD690085	26	W32		1	1	561	561	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	NONRETURN VALVE	HTGR102924R0001	HTGD690129	3	W52		1	1	39,633	39,633	SC16S060
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	COUPLING SLEEVE	HTGR311283P0001	HTGD690090	13	W36		2	1	2,460	2,460	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	THREADED PIN	NB 323250P0255	HTGD690090	18	W22		4	2	1	2	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	STRAINER BASKET	HTGR206364R0001	HTGD690090	9	W40		2	2	11,217		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	HEXAGON HEAD SCREW	NB 312333P0414	HTGD690090	19	W22		8	4	2	8	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	HEXAGON HEAD SCREW	NB 312433P0525	HTGD690090	8	W22		16	8	5	39	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	GASKET	HTGR412662P0001	HTGD690090	24	W22		2	2	748	1,496	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	COUPLING HALF	HTGR412668P0001	HTGD690090	10	W28		2	1	4,133	4,133	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	COUPLING HALF	HTGR419287P0001	HTGD690090	11	W28		2	1	5,117	5,117	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	KEY	GMN 413560P0338	HTGD690090	26	W32		2	1	433	433	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	KEY	GMN 413560P0378	HTGD690090	41	W32		2	1	433	433	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	CYLINDRICAL ROLLER BEAR.	NBT 431120P0162	HTGD690090	32	W28		2	2	1,476	2,952	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	SEAUNG DISC	HTGR413044P0001	HTGD690090	34	W22		2	2	128	256	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	OIL WIPER RING	HTGR414375P0001	HTGD690090	33	W28		2	2	2,952	5,904	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	COUPLING SLEEVE	HTGR311283P0001	HTGD690090	13	W36		1	1	2,460	2,460	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	THREADED PIN	NB 323250P0255	HTGD690090	18	W22		2	2	1	2	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	STRAINER BASKET	HTGR206364R0001	HTGD690090	9	W40		1	1	11,217		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	HEXAGON HEAD SCREW	NB 312333P0414	HTGD690090	19	W22		4	2	2	4	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	HEXAGON HEAD SCREW	NB 312433P0525	HTGD690090	8	W22		8	4	5	19	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	GASKET	HTGR412662P0001	HTGD690090	24	W22		1	1	748	748	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	COUPLING HALF	HTGR412668P0001	HTGD690090	10	W28		1	1	433	433	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	COUPLING HALF	HTGR413200P0001	HTGD690090	11	W28		1	1	5,117	5,117	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	KEY	GMN 413560P0338	HTGD690090	26	W32		1	1	433	433	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	KEY	GMN 413560P0378	HTGD690090	41	W32		1	1	433	433	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	CYLINDRICAL ROLLER BEAR.	NBT 431120P0162	HTGD690090	32	W28		1	1	1,476	1,476	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	SEAUNG DISC	HTGR413044P0001	HTGD690090	34	W22		1	1	128	128	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SEAL OIL PUMP	OIL WIPER RING	HTGR414375P0001	HTGD690090	33	W28		1	1	2,952	2,952	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EXPLOSION FLAP	GASKET	HTGD440186P0001	HTGD90383	11	W32		2	1	905	905	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	EXPLOSION FLAP	RETURNING DIAPHRAGM	HTGD440186P0001	HTGD90383	3	W32		2	1	5,117	5,117	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBIE OIL TANK	THREE-WAY CONTROL VALVE	HTGR204705P0003	HTGR204705	3	W60		1	1	613,282	613,282	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	LUBIE OIL TANK	PRESSURE CONTROL VALVE	HTGD125118R0002	HTGD690182	1	W60	204468	1	1	120,044	120,044	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	PRESSURE CONTROL VALVE	GASKET	NBT 400289P0030	HTGD690182	38	W22		2	2	5	10	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	PRESSURE CONTROL VALVE	GASKET	HTGR307086P0007	HTGD690182	39	W22		2	2	63	126	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	PRESSURE CONTROL VALVE	PISTON RING	HTGD458294P0001	HTGD690182	6	W32		1	1	689	689	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	PRESSURE CONTROL VALVE	SPRING COTTER	NB 338750P0423	HTGD690182	33	W24		2	2	236	472	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	VENTILATION FAN	IMPELLER	O 219593P9001	HTGD90631	3	W24		4	2	3,240	6,480	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	VENTILATION FAN	GASKET	HTGD433020P0001	HTGD90631	3	W22		8	8	49	393	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	LUBIE OIL TANK	NONRETURN VALVE	HTGR203879R0004	HTGD690129	9	W48	204320	3	1	28,141	28,141	SU115010 / 020 / 030
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	NONRETURN VALVE	VALVE	R 406378P0001	HTGD690129	3	W30		3	2	1,476	2,952	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	NONRETURN VALVE	VALVE SEAT	R 501879P0001	HTGD690129	2	W30		3	2	1,081	2,162	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.5 d	NONRETURN VALVE	SPRING	NB 434441P0485	HTGD690129	13	W24		3	1	358	358	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	GASKET	HTGR203879P0005	HTGD690129	9	W22		6	3	26	77	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBIE OIL TANK	GASKET	HTGDD017875P0070	HTGD90585	3	W22		3	3	138	413	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBIE OIL TANK	GASKET	NBT 402537P0070	HTGD90585	3	W30		3	3	18	53	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBIE OIL TANK	GASKET	GMD0924482P0010	HTGD90585	2	W22		2	2	61	122	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBIE OIL TANK	GASKET	GMD0924625P0075	HTGD90585	1	W22		1	1	124	124	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBIE OIL TANK	LEVEL CONTROLLER	HTGDD017665R0002	HTGD90585	3	W32		1	1	22,294		This is part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	CENTRIFUGAL PUMP	HTGR310984P0001	HTGD690085	3	W52	180888	1	1	375,876		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	GASKET	R 502393P0001	HTGD690085	3	W22		3	3	71	213	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	ORIFICE	HTGR417993P0001	HTGD690085	36	W32		1	1	315	315	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	INTERMEDIATE RING	HTGR419336P0001	HTGD690085	36	W32		1	1	226	226	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	STRAINER BASKET	HTGR105086R0001	HTGD690085	9	W40		1	1	24,796		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	CLUTCH HALF	HTGR419166P0001	HTGD690085	11	W28		1	1	5,412	5,412	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	CLUTCH HALF	HTGR419224P0001	HTGD690085	10	W28		1	1	3,837	3,837	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	HEXAGON HEAD SCREW	NB 312333P0520	HTGD690085	16	W22		8	1	6	6	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	HEXAGON HEAD SCREW	NB 312333P0466	HTGD690085	4	W22		4	4	5	20	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	HEXAGON HEAD SCREW	NB 312333P0566	HTGD690085	19	W22		12	12	5	58	

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Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	GASKET	GMD0924625P0075	HTGD690085	23	W22		1	1	124	124	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	GASKET	HTGR311348P0001	HTGD690085	24	W22		1	1	571	571	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	HEXAGON HEAD SCREW	NB 312333P0515	HTGD690085	TO J3	W22		4	4	3	12	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	AUXILIARY OIL PUMP	CHECK VALVE	HTGR001856R0005	HTGD690085		W42	4324/2047	1	1	48,205	48,205	SC165 030 no parts of the valve ??? According our technical department we normal offer only the gaskets to this check valve See line item 560 "BLUE"
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	UPPER CONNECTING PIECE	GASKET	NBT 400289P0027	HTGD90585		W22		1	1	256	256	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LOWER CONNECTING PIECE	GASKET	NBT 400289P0027	HTGD90585		W22		1	1	256	256	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	CONTROL FLUID TANK	GASKET	HTGD124046P0041	HTGD90585		W22		1	1	100	100	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	CONTROL FLUID TANK	GASKET	GMD1924502P0027	HTGD90585		W22		3	3	8	24	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	COUPLING SLEEVE	HTGD341163P0001	HTGD690090	13	W28		2	1	2,854	2,854	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	KEY	HTGD019762P0003	HTGD690090	27	W32		2	1	433	433	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	STRAINER BASKET	HTGR206367R0002	HTGD690090	9	W40		2		11,414		Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	GASKET	HTGR419346P0001	HTGD690090	23	W22		2	1	91	91	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	GASKET	HTGR311522P0001	HTGD690090	24	W22		2	1	315	315	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	SEALING DISC	HTGR413044P0001	HTGD690090	34	W22		2	1	128	128	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	KEY	HTGD019762P0014	HTGD690090	26	W32		2	1	571	571	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	KEY	HTGD019762P0017	HTGD690090		W32		2	1	571	571	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	HEXAGON HEAD SCREW	NB 312350P0466	HTGD690090	8	W24		32	16	9	142	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	GASKET	GMD0924625P0032	HTGD690090		W22		2	1	54	54	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	HEXAGON SCREW	NB 312450P0626	HTGD690090		W22		12	6	118	708	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	HEXAGONAL NUT	NB 332600P0518	HTGD690090		W30		20	10	65	650	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	STUD SCREW	NB 322050P7127	HTGD690090		W22		4	2	53	106	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	CLUTCH HALF	HTGR419339P0001	HTGD690090	11	W28		2		5,904		Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	CLUTCH HALF	HTGR419339P0001	HTGD690090	10	W28		2		4,329		Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	THREAD RIVET	NB 341300P0002	HTGD690090	31	W22		16	8	28	221	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	HEXAGON HEAD SCREW	NB 312333P0466	HTGD690090	21	W22		8	4	5	20	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	HEX HD SCR	NB 312350P0568	HTGD690090	14	W24		8	4	22	87	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	THREADED PIN	NB 323250P0255	HTGD690090	18	W22		4	2	1	2	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	HEXAGON HEAD SCREW	NB 312333P0256	HTGD690090	36	W22		8	4	1	4	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	HEXAGON HEAD SCREW	NB 312350P0467	HTGD690090	16	W24		16	8	8	63	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	CLOSING	HTGR307493P0005	HTGD690090	35	W28		2	1	787	787	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	RING	HTGR414375P0002	HTGD690090	33	W28		2	1	374	374	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.2_d	SCREW PUMP	THREADED PIN	HTGD019762P0054	HTGD690090	12	W32		4	2	197	393	Included with FRF pump upgrade? Yes
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	PRESSURE RELIEF VALVE	STANDARD PRESSURE SPRING	NB 434440P4414	D 401466	735	W24		1	1	209	209	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	PRESSURE RELIEF VALVE	PRESSURE RELIEF VALVE	D 203520R0009	D 401466		W48	697507 688881/ 204328/ 204327	1	1	29,519	29,519	SJ1250009; 019; & 070 (41700-PRV51, 52 & 330)
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	CONTROL FLUID CONTAINER	PRESSURE RELIEF VALVE	HTGR003218P0035	HTGR50069		W60		3	1	30,067	30,067	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SUPERFINE FILTER PLANT	FILTER BASKET	GMD4016129P0007	1.M-330.01	12	W28		2		12,140		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	MANN-WET AIR FILTER	MANN-WET AIR FILTER	TGD 326261P0003	HTGD90585		W22		1		1,968		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	OIL VAPOUR EXHAUSTER	GASKET	D 113292P0009	HTGD 90631		W22		1	1	45	45	

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Master Pricing Tables
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SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time [Weeks]	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	OIL VAPOUR EXHAUSTER	GASKET	HTGD449294P0001	HTGD 90631		W22		2	2	58	116	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	VALVE GUIDE	R 101033P0002	HTGD690129	2	W40		1	1	14,071	14,071	Check price (part looks in in real totally different as in Nomenclature Drawing this is the whole valve casing made of cast and the seat is casted too SJ125050 (5204)
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	VALVE	R 101033P0007	HTGD690129	3	W40		1	1	8,069	8,069	Check price / the valve is made of cast too price is correct SJ125050 (5204)
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	SPRING	NB 434441P1484	HTGD690129	13	W24		1	1	728	728	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	LOCKING RING	NB 435110P0175	HTGD690129	7	W22		1	1	33	33	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	HEXAGONAL NUT	NB 332600P0118	HTGD690129	11	W22		16	16	4	64	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	STUD SCREW	HTGR419262P0008	HTGD690129	10	W28		8	8	167	1,339	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	GASKET	GMD1924502P0019	HTGD690129	9	W22		2	2	69	138	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	GASKET	HTGR105124P0009	HTGD690129	9	W22		4	4	28	110	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	STUD SCREW	HTGR419262P0007	HTGD690129	10	W28		16	8	157	1,260	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	NONRETURN VALVE	HTGR105124R0002	HTGD690129	5	W48	204472	2	1	48,214	48,214	SJ125010/020
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	HEXAGONAL NUT	NB 332600P0117	HTGD690129	11	W24		32	16	2	28	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	PNEUMATIC TEMP CONTROLLER	PNEUMATIC TEMP CONTROLLER	HTGR204801P0001	HTGR204801		W32		1		54,512		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	GASKET	HTGR102976P0009	HTGD690129	9	W22		2	2	226	453	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	COMPRESSION SPRING	NB 434441P0973	HTGD690129	13	W24		1	1	1,378	1,378	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	VALVE	HTGR102975P0003	HTGD690129	3	W36		1	1	5,314	5,314	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	VALVE GUIDE	HTGR102975P0002	HTGD690129	2	W40		1	1	5,314	5,314	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	LOCKING RING	NB 435110P0150	HTGD690129	7	W30		1	1	22	22	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	NONRETURN VALVE	HTGR203879R0006	HTGD690129		W48	689642	4	1	30,503	30,503	SA11 S019 / 029 / 039 / 049
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	VALVE	R 406378P0001	HTGD690129	3	W30		4	1	1,476	1,476	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	VALVE SEAT	R 501879P0001	HTGD690129	2	W30		4	1	1,081	1,081	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	STANDARD PRESSURE SPRING	NB 434441P0488	HTGD690129	13	W22		4	1	143	143	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	GASKET	HTGR203879P0011	HTGD690129	9	W22		8	2	36	71	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	HEXAGON HEAD SCREW	NB 312433P0483	HTGD690129	10	W22		32	8	207	1,653	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	HEXAGONAL NUT	NB 332600P0115	HTGD690129	11	W22		32	8	1	6	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	NONRETURN VALVE	HTGR203495R0006	HTGD690129		W32		2	1	11,808	11,808	RA435059 / RA445059
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	VALVE	R 501823P0001	HTGD690129	3	W32		2	1	886	886	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	VALVE SEAT	R 501824P0001	HTGD690129	2	W32		2	1	561	561	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	GASKET	GMD0924483P0013	HTGD690129	9	W22		4	4	27	109	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	HEXAGON SCREW	NB 312433P0476	HTGD690129	11	W22		8	4	31	123	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	HEXAGONAL NUT	NB 332600P0115	HTGD690129	10	W22		8	4	1	3	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	NONRETURN VALVE	STANDARD PRESSURE SPRING	NB 434440P4808	HTGD690129	13	W22		2	1	324	324	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.1 d	MAIN LUBE OIL PUMP	MAIN LUBE OIL PUMP	HTGR002837R0001	HTGD690084	ALL	W52	203555	1		894,286		
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.1 d	MAIN LUBE OIL PUMP	TOOTHED PISTON	HTGR103824P0001	HTGD690084	5	W48	203557	1	1	185,460	185,460	
Turbine & Aux	NK38-SOW-41000-10002	2.5.4.1 d	MAIN LUBE OIL PUMP	TOOTHED PISTON	HTGR103822P0001	HTGD690084	4	W48	203556	1	1	180,755	180,755	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TWO-STAGE FILTER	O-RING	HTG2400206P0044	HTGD690259	11	W22		2	2	333	666	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TWO-STAGE FILTER	TISSUE SPARK INSERT	HTG2400206P0032	HTGD690259	51	W28		2	2	1,122	2,244	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TWO-STAGE FILTER	O-RING	HTG2400206P0034	HTGD690259	6	W24		2	2	195	390	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	TWO-STAGE FILTER	ROUND SEALING RING SET	HTG2400206P0042	HTGD690259	52	W24		1	1	1,735	1,735	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	OIL FILTER	O-RING	HTGD337435P5101	HTGD690175	13	W24		2	2	184	368	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	OIL FILTER	OIL FILTER CARTRIDGE	HTGD337435P0009	HTGD690175	19	W28		2	2	2,645	5,291	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBE OIL COOLER	SET OF GASKETS	HTGD337435P5100	HTGD690175		W22		1	1	226	226	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBE OIL COOLER	GASKET	HTGW001904P0015	HTDM600104	250	W24		30	10	15	148	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	LUBE OIL COOLER	GASKET	C 202480P0001	HTDM600104	244	W22		3	3	489	1,466	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HP LUBRICATION SYSTEM	GASKET	TGW 300135P0017	HTDM600104	243	W26		3	3	2,460	7,380	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HP LUBRICATION SYSTEM	JACKING PUMP	HTGD334570P0001	HTGD 90556	2	W52	203667	15		72,814		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HP LUBRICATION SYSTEM	ELCO COUPLING	TGD 327823R0004	HTGD 90556	5	W24		15	1	2,755	2,755	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HP LUBRICATION SYSTEM	FILTER JACKET UNIT	HTGD331407R0001	HTGD90227	7	W28		6	6	221	1,328	
Turbine & Aux	NK38-SOW-41000-10002	4		STANDARD PRESSURE SPRING	NB 434441P0568	HTGR90069		W24	204775	1	1	756	756	This is part of the pump upgrade
Turbine & Aux	NK38-SOW-41000-10002	4		STANDARD PRESSURE SPRING	NB 434440P5377	HTGR90069		W20	204776	1	1	380	380	This is part of the pump upgrade
Turbine & Aux	NK38-SOW-41000-10002	4		SPRING	NB 434441P0056	HTGR90069		W24	204774	1	1	555	555	This is part of the pump upgrade
Turbine & Aux	NK38-SOW-41000-10002	4		STANDARD PRESSURE SPRING	NB 434441P1050	HTGR90069	142	W24	204777	1	1	299	299	This is part of the pump upgrade
Turbine & Aux	NK38-SOW-41000-10002	4		BUSH	HTGR308344P0001	HTGR90069		W24	204775 3	1	1	1,696	1,696	
Turbine & Aux	NK38-SOW-41000-10002	4		GUIDE BUSHING	HTGR308346P0001	HTGR90069		W24	204788	1	1	2,498	2,498	
Turbine & Aux	NK38-SOW-41000-10002	4		BUSH	HTGR310905P0001	HTGR90069	12	W24	204789	1	1	2,257	2,257	
Turbine & Aux	NK38-SOW-41000-10002	4		MAIN CONTROL PISTON	HTGR308345P0001	HTGR90069		W26	204786 3	1	1	2,930	2,930	
Turbine & Aux	NK38-SOW-41000-10002	4		PISTON	HTGR310906P0001	HTGR90069	132	W26	204790	1	1	3,091	3,091	
Turbine & Aux	NK38-SOW-41000-10002	4		PILOT PISTON	HTGR309084P0001	HTGR90069		W24	204792 3	1	1	4,934	4,934	
Turbine & Aux	NK38-SOW-41000-10002	4		PISTON	HTGR309085P0001	HTGR90069	23	W22	204791	1	1	2,175	2,175	
Turbine & Aux	NK38-SOW-41000-10002	4		GASKET	GMD0924483P0016	HTGR90069		W17	204793 3	1	1	13	13	
Turbine & Aux	NK38-SOW-41000-10002	4		GASKET	NBT 402537P0070	HTGR90069		W17	204797	1	1	18	18	
Turbine & Aux	NK38-SOW-41000-10002	4		GASKET	NBT 400111P0010	HTGR90069		W17	204794	1	1	31	31	

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Master Pricing Tables
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SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit Installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	4	PILOT CONTROL	GASKET	NBT 400289P0019	HTGR90069	253	W17	204798	1	1	5	5	
Turbine & Aux	NK38-SOW-41000-10002	4		GASKET	NBT 400289P0015	HTGR90069		W17	204795.4	1	1	16	16	
Turbine & Aux	NK38-SOW-41000-10002	4		GASKET	HTGR308192P0008	HTGR90069	3	W16	204766	1	1	25	25	
Turbine & Aux	NK38-SOW-41000-10002	4		GUIDE PIERCE	HTGR309079P0001	HTGR90069		W15	204796.4	1	1	2,459	2,459	
Turbine & Aux	NK38-SOW-41000-10002	4		GUIDE PIERCE	HTGR309079P0002	HTGR90069		W15	204801	1	1	2,257	2,257	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	PRESSURE RELIEF VALVE	GASKET	NBT 400289P0039	GT 401372	5943	W28	204800	1	1	24	24	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	PRESSURE RELIEF VALVE	GASKET	NBT 400289P0036	GT 401372	5930	W22		1	1	4	4	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	PRESSURE RELIEF VALVE	GASKET	NBT 400289P0023	GT 401372	5930	W22		1	1	8	8	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	PRESSURE RELIEF VALVE	GASKET	GT 101194P0016	GT 401372	5926	W22		1	1	297	297	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	DU-BUSH	R 302530P0132	HTGR 90042	24	W22		2	2	12	12	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	CIRCLIP RING	NB 335805P0063	HTGR 90042	17	W22		8	8	16	128	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	LOCK WASHER	GMN 336944P0109	HTGR 90042	33	W22		1	1	12	12	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	O-RING	R 403028P0033	HTGR 90042	27	W22		2	2	16	31	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	O-RING	R 403028P0009	HTGR 90042	29	W22		1	1	3	3	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	O-RING	R 403028P0017	HTGR 90042	30	W22		3	3	6	18	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	O-RING	R 403028P0021	HTGR 90042	28	W22		1	1	7	7	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	ROD SEALUNG	HTGR416377R0010	HTGR 90042	31	W24		2	2	87	173	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SAFETY RELAY	GASKET	HTGR416267P0001	HTGR 90042	26	W22		1	1	131	131	replaced by control upgrade ??? This is not a part of the control upgrade
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	CIRCLIP RING	NB 335805P0061	HTGR 90040	216	W22		8	8	7	56	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	O-RING	R 403028P0029	HTGR 90040	217	W22		2	2	74	149	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	O-RING	R 403028P0021	HTGR 90040	218	W22		2	2	7	13	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	O-RING	R 403028P0009	HTGR 90040	219	W22		1	1	3	3	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	O-RING	R 403028P0006	HTGR 90040	220	W22		3	3	5	15	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	TEFLON GASKET	HTGR413493P0012	HTGR 90040	221	W22		1	1	131	131	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	DISTRIBUTION VALVE 3/2	HTGR311050P2115	HTGR 90040	1	W26		1	1	1,927	1,927	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	SET OF GASKETS	HTGR311050P0010	HTGR 90040	TO 1	W24		1	1	231	231	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	TEFLON GASKET	HTGR413493P0012	HTGR 90041	313	W22		1	1	131	131	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	O-RING	R 403028P0029	HTGR 90041	315	W22		2	2	74	149	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	O-RING	R 403028P0021	HTGR 90041	316	W22		2	2	7	13	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	O-RING	R 403028P0009	HTGR 90041	317	W22		1	1	3	3	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	O-RING	R 403028P0006	HTGR 90041	323	W22		3	3	5	15	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	CIRCLIP RING	NB 335805P0061	HTGR 90041	322	W22		8	8	7	56	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	DISTRIBUTION VALVE 3/2	HTGR311050P2115	HTGR 90041	1	W26		1	1	1,927	1,927	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	SET OF GASKETS	HTGR311050P0010	HTGR 90041	TO 1	W24		1	1	231	231	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	WAY VALVE 3/2,MAN,OPERAT.	HTGR311049P0027	HTGR 90041	2	W26		1	1	2,934	2,934	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	SERVO VALVE	SET OF GASKETS	HTGR311049P0031	HTGR 90041	TO 2	W24		1	1	322	322	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	LOCK WASHER	HTGR415499P0002	HTGR 90028	41	W24		3	3	121	362	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	LOCKING PLATE	HZN 451341P0560	HTGR 90028	40	W24		24	24	45	1,087	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	SLIDE RING	HTGR204625P0135	HTGR 90028	17	W30		3	3	207	622	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	SLIDE RING	HTGR204625P0081	HTGR 90028	19	W24		3	3	181	544	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	GUIDE BANO	HTGR307744P0031	HTGR 90028	16	W24		3	3	203	608	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	GUIDE BANO	HTGR307744P0054	HTGR 90028	15	W24		3	3	213	638	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	CIRCLIP RING	NB 335805P0067	HTGR 90028	40	W22		24	24	4	106	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	CIRCLIP RING	NB 335805P0063	HTGR 90028	34	W22		12	12	16	188	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	CIRCLIP RING	NB 335805P0059	HTGR 90028	1135	W22		18	18	1	14	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	LOCKING RING	NB 435110P0115	HTGR 90028	39	W22		3	3	5	15	
Turbine & Aux	NK38-SOW-41000-10002	2.5.5.3. d	VACUUM RELIEF VALVE	DOWEL PIN	NB 338750P0214	HTGR 90028	1156	W22		3	3	21	63	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	DISTRIBUTION VALVE 3/2	DISTRIBUTION VALVE 3/2	HTGR311050P2115	HTGR 90028	1	W26		1	1	1,927	1,927	
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	DISTRIBUTION VALVE 3/2	SET OF GASKETS	HTGR311050P0010	HTGR 90028	TO 1	W24		1	1	231	231	
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	ALSTOM PROP. VALVE FOR HP ACTUAT	PMAT				W32		4	4	25,106		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	POSITION TRANSDUCERS FOR HP ACTUA	PMAT				W32		4	4	3,347		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	SOLENOID VALVE FOR TRIP BLOCK	PMAT				W32		3	3	2,790		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	PROXIMITY SWITCH FOR TRIP BLOCK	PMAT				W32		1	1	1,395		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	ALSTOM PROP. VALVE MSR ACTUATORS/L	PMAT				W32		8	8	12,832		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	POSITION TRANSDUCERS FOR MSR ACTUA	PMAT				W32		2	2	3,347		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	POSITION TRANSDUCERS FOR LP FLAE	PMAT				W32		6	6	3,347		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	SPEED PROBE INCL CONVERTER	PMAT				W32		3	3	6,695		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	PRESSURE TRANSM. FOR CONDENSER PH	PMAT				W32		3	3	8,369		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	PRESSURE TRANSM. FOR LUBE OIL PRE	PMAT				W32		3	3	6,695		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001	PRESSURE TRANSM. FOR CONTROL OIL P	PMAT				W32		3	3	6,695		

Ailston
Thermal Power Services
My Department

Master Pricing Tables
OPG DNGS TG Refurbishment Project

SOW Package	SOW Doc #	SOW Reference	Description of higher level item	Description	Material number	Nomenclature Dwg	Nomenclature ITEM	Lead time (Weeks)	OPG CAT ID's	Single unit installed QTY	Recom'd QTY	New Item Price	New Subtotal Price	Remarks
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		PRESSURE TRANSM. FOR HP EXHAUST PIPE	PMAT			W32		6		6,695		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		TEMPERATURE TRANSMITTERS	PMAT			W32		50		1,395		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		LEVEL MEASUREMENT LUBE OIL TANK	PMAT			W32		3		4,463		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		LEVEL MEASUREMENT CONTROL OIL TANK	PMAT			W32		3		4,463		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		9001/00-280/020/101 SAFETY BARRIER	PMAT			W32		4		921		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		9001/00-280/085/101 SAFETY BARRIER	PMAT			W32		4		921		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		9001/02-093-003-101 SAFETY BARRIER	PMAT			W32		4		921		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		CON 011 SIGNAL CONVERTER	PMAT			W32		19		2,790		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		CON 011/913-030 SIG. CONV. EXT. MEAS.	PMAT			W32		3		5,021		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		K20315/03 INDUCTIVE DISPLACE. TRANS.	PMAT			W32		1		8,090		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		A6110 DUAL CHAN. SHAFT VIB. MEAS. MOD	PMAT			W32		7		6,864		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		A6120 DUAL CHAN. BEARING VIB. MEAS. MOD	PMAT			W32		7		7,062		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		A6210 DUAL CHAN. POS. MEAS. MOD	PMAT			W32		4		6,592		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		A6220 DUAL CHAN. SHAFT ECCENTR. MEAS.	PMAT			W32		1		7,341		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		A6310 DUAL CHAN. KEY MEAS. MOD	PMAT			W32		1		5,190		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		A6410 DUAL CHAN. POS. MEAS. MOD	PMAT			W32		1		7,084		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		A6750 RELAY CARD WITH 6 RELAYS	PMAT			W32		7		1,747		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		PR6423/000-000 CONTACT LESS DISPL. T	PMAT			W32		21		1,216		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		PR6424/000-000 CONTACT LESS DISPL. T	PMAT			W32		1		2,437		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		PR9268/200-000 VERTICAL BEAR. VIBR. S	PMAT			W32		7		3,905		
Turbine & Aux	NK38-SOW-41000-10002	NK38-SOW-54100-10001		PR9268/300-000 HORIZ. BEAR. VIBR. SENS	PMAT			W32		7		3,905		
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	DIFFUSER	HTGR104691R0001	HTGD690211		4	W38	203765	2	1	23,866	23,866
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	SPINDLE	HTGR205957R0001	HTGD690211		6	W36		2	1	7,603	7,603
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	GUIDE BUSHING	HTGR205948R0001	HTGD690211		7	W38	203770	2	1	31,892	31,892
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	BELL BEARING	HTGR205958R0001	HTGD690211		8	W38	203767	2	1	23,899	23,899
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	VALVE BELL COMPL	HTGR205949R0001	HTGD690211		9	W38	203768	2	1	20,815	20,815
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	BUSH	HTGR310766P0001	HTGD690211		10	W32		2	1	4,858	4,858
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	RING	HTGR417754P0001	HTGD690211		11	W30		2	1	465	465
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	RING	HTGR417753P0001	HTGD690211		12	W30		2	1	528	528
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	COUPLING COMPLETE	HTGR311460R0001	HTGD690211		16	W32		2	1	4,224	4,224
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	MEASURING STUD	HTGD327228R0004	HTGD690211			W24		4	2	972	1,943
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	EXPANSION STUD	TGD 218953P0004	HTGD690211			W22		20	6	147	880
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	SOCKET HEAD NUT	TGD 432471P0001	HTGD690211			W22	482506 3	24	6	146	879
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	EXPANSION SLEEVE	HTGR415995P0001	HTGD690211			W24	482505 3	20	10	68	677
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	DOWEL PIN	HTGR417752P0001	HTGD690211		28	W22		4	2	359	718
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	DOWEL PIN	NB 338450P0614	HTGD690211		21	W22		4	4	116	465
Turbine & Aux	NK38-SOW-41000-10002	AP recom. Parts C-Inspect	HEATING STEAM VALVE	LOCKING WASHER	GMN 336944P0108	HTGD690211		24	W22		12	12	4	46
Turbine & Aux	NK38-SOW-41000-10002	3.4.4_a	SERVOMOTOR	SET OF CUP SPRINGS COMPL.	HTGD230515R0001	HTGR308410		7	W32		2	2	19,130	38,260
Turbine & Aux	NK38-SOW-41000-10002	3.4.4_e	SERVOMOTOR	CONTROL SPRING	HTGR205113R0001	HTGR308410		34/35	W24		2	2	848	1,696
Turbine & Aux	NK38-SOW-41000-10002	3.4.4_d	SERVOMOTOR BASIC ELEMENTS	CONTROL PISTON	TGR 305752P0001	HTGR308410		28	W32		2	2	12,847	25,695
Turbine & Aux	NK38-SOW-41000-10002	3.4.4_c	SERVOMOTOR BASIC ELEMENTS	CONTROL BUSH	HTGR204746P0001	HTGR308410		27	W28		2	2	13,512	27,024
Turbine & Aux	NK38-SOW-41000-10002	3.4.4_e	SERVOMOTOR BASIC ELEMENTS	STANDARD PRESSURE SPRING	NB 434441P1527	HTGR308410		26	W30		2	2	231	463
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_h	HP-ROTOR, COMPL.	SEALING STRIP	HTGD120650F0014			W30	626434 3	80	40	342	13,685	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_h	HP-ROTOR, COMPL.	CAULKING WIRE	D 423554P0005			W30		190	95	7	660	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_h	SEAL STRIP AND CAULK.WIRE	SEALING RING HALF	HTGD120650F0005			W30		26	13	577	7,505	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_h	SEAL STRIP AND CAULK.WIRE	SEALING RING HALF	HTGD120650F0006			W30		46	23	706	16,233	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_h	SEAL STRIP AND CAULK.WIRE	SEALING RING HALF	HTGD120650F0005			W30		26	13	577	7,505	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_h	SEAL STRIP AND CAULK.WIRE	SEALING RING HALF	HTGD120650F0006			W30		46	23	706	16,233	
Turbine & Aux	NK38-SOW-41000-10002	3.1.1_h	SEAL STRIP AND CAULK.WIRE	SEALING STRIP	HTGD120650F0015			W30		4	2	610	1,219	
Turbine & Aux	NK38-SOW-41000-10002	3.1.4_a	SEAL STRIP AND CAULK.WIRE	SEALING STRIP	HTGD120650F0016			W30		28	14	674	9,430	
Turbine & Aux	NK38-SOW-41000-10002	3.1.4_a	SEAL STRIP AND CAULK.WIRE	SEALING STRIP	HTGD120650F0015			W30		4	2	610	1,219	
Turbine & Aux	NK38-SOW-41000-10002	3.1.4_a	SEAL STRIP AND CAULK.WIRE	SEALING STRIP	HTGD120650F0016			W30		28	14	674	9,430	
Turbine & Aux	NK38-SOW-41000-10002	3.1.4_a	HP-ROTOR, COMPL.	CAULKING WIRE	D 423554P0005			W30		1350	675	7	4,689	
Turbine & Aux	NK38-SOW-41000-10002	3.2_e or 2.2.1.f	SEAL STRIP AND CAULK.WIRE	SEALING RING HALF	HTGD120650F0005			W30		42	21	1,017	21,353 ROW 1-6	
Turbine & Aux	NK38-SOW-41000-10002	3.2_e or 2.2.1.f	SEAL STRIP AND CAULK.WIRE	SEALING RING HALF	HTGD120650F0007			W30		48	24	1,091	26,175 ROW 7-18	
Turbine & Aux	NK38-SOW-41000-10002	3.2_e or 2.2.1.f	SEAL STRIP AND CAULK.WIRE	SEALING RING HALF	HTGD120650F0005			W30		84	42	1,017	42,714 ROW 1-6	
Turbine & Aux	NK38-SOW-41000-10002	3.2_e or 2.2.1.f	SEAL STRIP AND CAULK.WIRE	SEALING RING HALF	HTGD120650F0007			W30		24	12	705	8,457 ROW 7-18	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4_a	LP-ROTOR	SEALING STRIP	HTGD120650F0015			W30		54	27	1,671	45,117	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4_a	LP-ROTOR	SEALING STRIP	HTGD120650F0016			W30		36	18	1,378	24,811	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4_a	LP-ROTOR	SEALING STRIP	HTGD120650F0015			W30		54	27	1,671	45,117	
Turbine & Aux	NK38-SOW-41000-10002	3.2.4_a	LP-ROTOR	SEALING STRIP	HTGD120650F0016			W30		36	18	1,378	24,811	
Turbine & Aux	NK38-SOW-41000-10002	3.2.1_e & 4_a or 2.2.1.f	LP-ROTOR	CAULKING WIRE	D 423554P0005			W30		3600	1800	7	12,505	

Schedule 7.1 - Contract Price

Attachment 7.1(e)

Business Expense Schedule

STANDARD FORM BUSINESS EXPENSE SCHEDULE

Effective June 17, 2009

For

ONTARIO POWER GENERATION INC.

Updated July 27th, 2010

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BUSINESS EXPENSE SCHEDULE

RECITALS

- A. Ontario Power Generation Inc. ("**OPG**") entered into an agreement (the "**Agreement**") with the other party to the Agreement (the "**Supplier**"). This schedule (this "**Schedule**") forms part of the Agreement. Under the Agreement, OPG agreed to reimburse the Supplier for certain business expenses incurred by employees of the Supplier ("**Eligible Employees**") in performing work for OPG under the Agreement.
- B. This Schedule sets out the terms on which OPG will reimburse the Supplier for business expenses incurred by Eligible Employees in performing work for OPG.

SECTION 1-INTERPRETATION

1.1 Three Types of Reimbursement

OPG will reimburse the Supplier for expenses that are eligible for reimbursement in accordance with this Schedule. OPG will make the reimbursements in one of three ways respecting each Eligible Employee in respect of whom reimbursements are payable. The three ways of reimbursement are:

- (a) reimbursement of individually incurred Allowable Expenses as set out in section 2 through section 5;
- (b) payment on a flat rate daily basis as set out in section 6; or
- (c) payment on a flat rate monthly basis as set out in section 7.

Except as expressly set out in section 6 or section 7, if OPG pays the Supplier the daily or monthly rate in respect of an Eligible Employee, OPG will reimburse the Supplier no Allowable Expenses in respect of that Eligible Employee.

1.2 Definitions

In this Schedule, the following terms have the respective meanings set out below.

- (a) **Agreement** is defined in Recital A.
- (b) **Allowable Expenses** is defined in section 2.1.
- (c) **Business Day** means any day other than a Saturday, Sunday, New Year's Day, Family Day, Good Friday, Easter Monday, Victoria Day, Canada Day, Civic Holiday, Labour Day, Remembrance Day, Thanksgiving Day, Christmas Day and Boxing Day.
- (d) **Supplier** is defined in Recital A.
- (f) **Eligible Employees** is defined in Recital A.
- (g) **Home Base** means the permanent residence of the Eligible Employee.
- (h) **OPG Representative** is defined in section 2.1(d).
- (i) **Schedule** is defined in Recital A.
- (i) **Work Site** means a location at which the Eligible Employee is ordinarily required to provide services to OPG under the Agreement.

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1.3 Headings

The division of this Schedule into sections, the insertion of headings and the provision of a table of contents are for convenience of reference only and are not to affect the construction or interpretation of this schedule.

1.4 Expanded Definitions

unless otherwise specified, words importing the singular include the plural and vice versa and words importing gender include all genders. The term "**including**" means "including without limitation", and the terms "**include**", "**includes**" and "**included**" have similar meanings. The term "**will**" means "shall".

1.5 Business Day

If under this Schedule any payment or calculation is to be made on or as of a day which is not a Business Day, that payment or calculation is to be made on or as of the next day that is a Business Day.

1.6 Payment Currency

Except as expressly set out in the Agreement, amounts to be paid or calculated under this Schedule will be paid or calculated in Canadian dollars. Any amounts to be paid or calculated which are denominated in a foreign currency will be converted into Canadian dollars, within three Business Days of the invoice date, using the Bank of Canada nominal noon exchange rate, as posted on the Bank of Canada website (currently located at www.bankofcanada.ca).

1.7 Conflict

If there is conflict between any term of this Schedule and any term in another part of the Agreement, the relevant term in the other part of the Agreement will prevail.

1.8 Notice

Any notices to be given under this Schedule will be given in accordance with the notice terms set out elsewhere in the Agreement.

SECTION 2 - REIMBURSEMENT OF ALLOWABLE EXPENSES

2.1 Allowable Expenses

OPG will only reimburse the Supplier for the following eligible expenses ("**Allowable Expenses**") to the extent they otherwise meet the requirements of this Schedule and the rest of the Agreement:

- (a) air, rail and bus travel expenses permitted under section 3;
- (b) vehicle expenses permitted under section 4;
- (c) lodging expenses permitted under section 5; and



- (d) any other expenses which have been approved in writing by the OPG individual managing the Agreement (the "OPG Representative").

2.2 Expenses Minimised

Notwithstanding any term in this Schedule, the Supplier will use all reasonable efforts to ensure that Eligible Employees minimise Allowable Expenses and the Supplier will ensure that all Allowable Expenses are reasonable and properly incurred in a manner consistent with effective and efficient business practice. OPG is not obliged to reimburse any expenses which are not so incurred. Eligible Employees who normally live together are expected to share accommodations and vehicle expenses, where reasonable.

2.3 Excluded Items

Notwithstanding any term in this Schedule, OPG will not reimburse any amounts to the Supplier or any Eligible Employee for any hospitality, food or incidental expenses, including, but not limited to, in respect of the following:

- (a) meals, snacks, alcoholic and non-alcoholic beverages
- (b) any expense whatsoever if the one way distance between the Eligible Employee's Home Base and the Work Site is less than 100 kilometres;
- (c) gratuities;
- (d) airline or railway club dues, fees or other charges;
- (e) personal service expenses, including hair care, shoe shine, toiletry and spa treatment expenses;
- (f) laundry, dry cleaning or valet expenses;
- (g) hotel telephone charges or internet access
- (h) personal telephone calls;
- (i) cellular telephones, data devices (for example, Blackberries) or other communication devices;
- (j) entertainment or recreation expenses, including pay-per-view, video, compact disk or DVD rental, in-room entertainment, games, gaming, reading, sports or exercise expenses;
- (k) headsets or other in-flight expenses;
- (l) dependant care expenses
- (m) pet care expenses;
- (n) mini bar charges or sundry items (including gum and snacks);
- (o) credit card interest or other credit card expenses;
- (p) automobile washes;
- (q) fines or other expenses assessed or otherwise incurred in respect of traffic or parking violations; or
- (r) fees or other expenses for toll highways or vehicle rental agency administration charges for use of toll highways.

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2.4 Method of Reimbursement

OPG will reimburse the Supplier for Allowable Expenses which otherwise meet the requirements of this Schedule and the rest of the Agreement in accordance with the following terms.

- (a) **Monthly Invoice.** The Supplier will deliver to OPG, to the address indicated in the purchase order or Agreement, on a monthly basis, an invoice for Allowable Expenses in a form and manner acceptable to the OPG Representative, acting reasonably. The Supplier will deliver to the OPG Representative, a copy of the invoice and will ensure that the invoice legibly itemises and, if necessary, briefly describes all Allowable Expenses. The Supplier will not invoice or otherwise charge OPG for any expenses other than Allowable Expenses. The Supplier will ensure that all expenses claimed on each such invoice meet the requirements of this Schedule and the rest of the Agreement and are first approved by the Supplier. If the Supplier fails to deliver an invoice to OPG for an expense within six months of the expense being incurred, OPG will not be obliged to reimburse the Supplier for such expense.
- (b) **Receipts.** The Supplier will deliver to the OPG Representative, together with a copy of the invoice, original official itemised receipts for each Allowable Expense claimed (including airline, railway or bus ticket passenger coupons or electronic tickets, boarding passes, vehicle rental contracts, itemised hotel bills and travel itineraries). The Supplier will separate expenses for each Eligible Employee. Debit card and credit card receipts are not acceptable without the itemised receipt. OPG will not accept electronic, photocopied or fax copies of receipts.
- (c) **GST/HST Deducted.** The Supplier will deduct all Canadian goods and services tax/harmonized sales tax levied under the *Excise Tax Act* (Canada) recovered or recoverable by the Supplier on the payment of expenses before submitting any invoice to OPG covering any Allowable Expenses. The Supplier will ensure that each such invoice will separately set out all Canadian goods and services tax /harmonized sales tax levied under the *Excise Tax Act* (Canada) and reimbursable by OPG under this Schedule.
- (d) **Reimbursement.** OPG will reimburse the Supplier for Allowable Expenses which meet all of the requirements of this Schedule, received and approved by OPG before the 25th of each month on the 25th of the following month.

The Supplier will ensure that all Eligible Employees initially pay for expenses using their own payment methods. OPG will not provide any advances respecting Allowable Expenses. The Supplier is exclusively responsible for the reimbursement of expenses to all Eligible Employees. Failure by the Supplier to comply with the requirements of this Schedule and the rest of the Agreement may result in delay of reimbursement of expenses or rejection of any invoice in whole or in part.

2.5 Travel Agency

OPG has and may in the future negotiate rates with a travel service to reduce travel and lodging expenses. Unless OPG provides the Supplier with written notice stating otherwise, or the Supplier can demonstrate it can obtain lower rates from providers other than American Express Business Travel, the Supplier will

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ensure that all Eligible Employees process travel requirements through American Express Business Travel. OPG also encourages the Supplier to have all vehicle rental and hotel arrangements made through American Express Business Travel. American Express Business Travel may be reached in Canada and the United States at 1-866-868-4441. The Supplier will ensure that all Eligible Employees travelling for the purpose of providing services under the Agreement identify themselves to American Express Business Travel as such.

2.6 Confirming Rates

The Supplier will ensure that the rates booked by it or an Eligible Employee are the same or lower than that listed on the travel itinerary.

2.7 Home Base and Work Site

Where applicable, the Supplier will specify in each invoice the Home Base and the Work Site for each Eligible Employee. At OPG's request, the Supplier will provide written confirmation from each Eligible Employees as to the employee's permanent residence and street address. A post office box is not an acceptable street address.

SECTION 3 - AIR, RAIL OR BUS TRAVEL

3.1 Air, Rail or Bus Travel

The expense of air, rail and bus travel is an Allowable Expense to the extent the actual amount of airfare or, rail or bus fare was incurred by an Eligible Employee in providing services to OPG under the Agreement and to the extent of compliance with the other requirements of this Schedule and the rest of the Agreement. The Supplier will cause Eligible Employees, to the extent possible, to take advantage of hotel and airport shuttles where available. OPG will reimburse the Supplier for the expenses actually incurred by an Eligible Employee for travel between the Eligible Employee's Home Base, Work Site or hotel and the airport, railway station or bus terminal where the Eligible Employee arrives or departs. In addition, the amount of any such reimbursement may not exceed the lesser of:

- (a) the expense of the taxi fare or other similar out of pocket charge to travel to or from the airport, railway station or bus terminal; and
- (b) if applicable, parking charges at the airport, railway station or bus terminal.

3.2 Economy Class

Air expenses are not Allowable Expenses unless the Eligible Employee travels on economy class or equivalent. Rail expenses will be permitted for travel by VIA 1 or equivalent.

3.3 Vehicle Instead of Air, Rail or Bus Travel

OPG will only reimburse the Supplier for use of a personal vehicle or rental car for trips which would customarily be travelled by air, rail or bus, for the amount which is equal to the lesser of:



- (a) the expense of the airfare, rail fare or bus fare that would have been reimbursed by OPG to the Supplier under section 3; and
- (b) the amount that would otherwise be reimbursable by OPG to the Supplier for vehicle travel pursuant to section 4.

OPG will not reimburse the Supplier for any lodging that would not have been incurred had the trip been made by air, rail or bus.

3.4 Visits Home

OPG will reimburse air, rail or bus travel expenses for a maximum of one round trip home per month for each Eligible Employees on assignment at a Work Site where the duration is more than 45 days and the Home Base of that employee is greater than 400 kilometres from the Work Site.

3.5 Minimising Expenses

The Supplier will, to the extent possible, cause all air travel, to be by "lowest logical airfare", to take advantage of weekend specials and other discount fares and to reduce overall expenses and plan ahead (booking at least two weeks before the departure date is expected).

SECTION 4 - VEHICLES

4.1 Reimbursable Vehicle Expenses

The expense of rental vehicles or personal vehicles used by Eligible Employees will be an Allowable Expense to the extent that:

- (a) the use of the vehicle was for official OPG business;
- (b) the one way distance between the Eligible Employee's Home Base and the Work Site is greater than 100 kilometres or the Eligible Employee is required to provide services at a location other than the Eligible Employee's Work Site;
- (c) the use of the rental vehicle was pre-approved in writing by the OPG Representative; and
- (d) the expense otherwise meets the requirements of this Schedule and the rest of the Agreement.

4.2 Terms of Rental

The Supplier will make all bookings of rental vehicles through American Express Business Travel or directly with one of the OPG approved rental car agencies. The Supplier will book only mid size or smaller vehicles unless otherwise approved in writing by the OPG Representative where circumstances require it (for example, a van to carry equipment or a large group). When the Supplier books a rental vehicle, the Supplier will make the following selections when asked to select insurance coverage:

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- (a) where collision damage waiver is provided through the credit card company, the Supplier will decline collision damage waiver insurance; and
- (b) where collision damage waiver is not provided through the credit card company, the Supplier will accept collision damage waiver insurance.

Where the Supplier fails to comply with sections 4.2(a) or 4.2(b), any additional expense that is incurred by failing to comply with either of those sections will not constitute an Allowable Expense.

4.3 Personal Vehicle

OPG will not reimburse the Supplier for use of a personal vehicle by an Eligible Employee for the first 200 kilometres of any trip (round trip), except if the Eligible Employee is required to provide services at a location other than the Eligible Employee's Work Site. If otherwise in accordance with the terms of this Schedule, OPG will reimburse the Supplier as an Allowable Expense for all personal vehicle travel by an Eligible Employee in excess of 200 kilometres (round trip), at the published rates per kilometre on the date of invoice, for vehicle expenses for Ontario set out on the Canada Revenue Agency website (<http://www.cra-arc.gc.ca/tx/llrts/menu-eng.html>). This Canada Revenue Agency amount covers all vehicle related expenses, except parking.

4.4 Reducing Expenses

The Supplier will use all reasonable attempts to reduce the expenses of vehicle travel by:

- (a) arranging for employees to share vehicles to minimise travel expense;
- (b) requiring Eligible Employees to use a rental vehicle and refuel it before returning it;
- (c) considering a long-term lease for lengthy work assignments (that is, more than 30 consecutive days) when the Eligible Employee requires a rental vehicle; and
- (d) requiring Eligible Employees to use public transit when travelling to locations within or around urban centres.

4.5 Multiple Users

OPG will only reimburse the Eligible Employee whose vehicle is used when two or more Eligible Employees travel in one vehicle. If two or more Eligible Employees share a rental vehicle, OPG will only reimburse the Eligible Employee who incurred the expense.

SECTION 5 - LODGING

5.1 Overnight Accommodation

The expense of overnight accommodation for Eligible Employees will be an Allowable Expense to the extent that the overnight stay was pre-approved in writing by the OPG Representative and to the extent that the expense otherwise meets the requirements of this Schedule and the rest of the Agreement. The OPG Representative will not approve any overnight accommodation unless:



- (a) the presence of the Eligible Employee is required at a Work Site which is more than 200 kilometres (one way) from that Eligible Employee's Home Base; or
- (b) poor weather creates hazardous driving conditions and the Eligible Employee cannot safely return to the Eligible Employee's Home Base.

The Supplier will include a written explanation for all overnight accommodation with the invoice.

SECTION 6 - DAILY RATES

6.1 Daily Rates Instead of Allowable Expenses

To the extent this section 6 applies to any Eligible Employee, none of the terms of section 2 to section 5 apply, except for any Allowable Expenses for air, rail or bus travel between an Eligible Employee's Work Site and Home Base that is reimbursable in accordance with section 3. Notwithstanding the previous sentence, the temporary residence (where the Eligible Employee resides while working on the OPG project) will be considered the Home Base for the purposes of calculating Allowable Expenses in the event the Eligible Employee is required to travel to a location other than the Work Site.

6.2 Daily Rates

Before the commencement of, or at any time during, a work assignment for any Eligible Employee, OPG may elect based on the remaining duration of the work assignment, the distance between the Eligible Employee's Home Base and the Work Site or for other reasons to pay the Supplier a daily rate in respect of that Eligible Employee rather than to reimburse the Supplier for Allowable Expenses.

6.3 All Inclusive

Except as expressly set out in this section 6, the daily rate set out in section 6.4 is inclusive of all expenses whatsoever that will be reimbursed by OPG, including expenses respecting accommodation, local transportation, work permits and fees, utilities, communication charges, furnishings, insurance and any Allowable Expenses that would otherwise be reimbursable to the Supplier under section 2 to section 5.

6.4 Rates

Subject to adjustment under section 6.5, the following are the daily rates that OPG will pay the Supplier in respect of Work Sites:

- (a) City of Toronto, \$150; and
- (b) all other locations, \$120 (including Mississauga, Pickering, Whitby and Darlington).

6.5 Application of Rate

Where OPG has elected to pay the daily rate for an Eligible Employee, OPG will pay the daily rate to the Supplier on a monthly basis for that Eligible Employee for each full day that the Eligible Employee provided services under the Agreement and for each weekend day unless the Eligible Employee

surrendered his or her accommodations. The daily rate will not be paid for any period of an unexcused absence or when the Eligible Employee has surrendered the Eligible Employee's accommodation during a home visit or absence (includes unavailability to work on weekends if trip home was taken on the weekend). The daily rate will be reduced by \$35 for each day of approved trips home and on the last day of providing services under the Agreement. Where OPG has elected to pay the daily rate for Eligible Employees who normally live together, the Eligible Employees are expected to share accommodations. Adjustments may be made to the daily rate set out in section 6.4 if Eligible Employees share accommodations and other expenses.

6.6 Method of Reimbursement

OPG will pay the Supplier the applicable daily rate in accordance with the following terms.

- (a) **Monthly Invoice.** The Supplier will provide OPG, on a monthly basis, with an invoice listing the number of Eligible Employees for whom the Supplier is claiming the daily rate and the number of days being claimed for each Eligible Employee. The Supplier will ensure that the invoice includes a description of the work package or project name and project number (and work breakdown structure element if applicable).
- (b) **Evidence of Expenses.** The Supplier will provide OPG with original itemised receipts and time sheets evidencing that the Eligible Employee attended the Work Site and made use of temporary accommodation on each day for which the daily rate is being requested. Debit card and credit card receipts are not acceptable without the itemised receipt.

Failure by the Supplier to comply with the requirements of this Schedule and the rest of the Agreement may result in delay of reimbursement of expenses or rejection of any invoice in whole or in part.

6.7 Absences

Unless authorised in writing by the OPG Representative, OPG will not be required to pay the daily rate for an Eligible Employee where that Eligible Employee was absent from the Work Site without having been excused by the OPG Representative or where that Eligible Employee did not make use of the Eligible Employee's accommodation during an absence from the Work Site (other than an absence required to perform services to OPG under the Agreement). The OPG Representative may consider authorising payment of the daily rate for absences such as an infrequent sick day or medical appointments requiring exams or tests.

SECTION 7 - MONTHLY RATES

To the extent this section 7 applies to any Eligible Employee, none of the terms of section 2 to section 6 apply, except for any Allowable Expenses for air, rail or bus travel between an Eligible Employee's Work Site and Home Base that is reimbursable in accordance with section 3. Where OPG elects to pay on a monthly basis in respect of any Eligible Employee, OPG will pay the Supplier \$1800 per month (or pro-rated portion of a month). All the terms of section 6 apply to the calculation of this monthly rate, with such modifications as the circumstances require.



Schedule 7.1 - Contract Price
Attachment 7.1(f)
Hedging of Euro Currency Amounts in the Contract Price

The Contractor shall enter into currency hedging agreements and follow the process for approval by OPG as set forth herein in order to manage the Euro/Canadian Dollar ("CAD") foreign exchange ("FX") risk associated with procurement of the Goods. OPG shall reimburse the Contractor for the hedging costs without mark-up.

1. OPG shall pay the Contractor in Canadian dollars ("CAD") for the Euro currency portion of the Contract Price ("EUR-CP") after conversion of the Euro currency elements of the Contract Price to CAD based on the process set forth herein.
2. The amount of EUR-CP shall be converted to CAD at a spot rate as validated by OPG.
3. Adjustments which may increase or decrease the EUR-CP arise from a) escalation as agreed by the Parties, or b) amendments to the Agreement (as required due to Change Directives). For the purpose of issuing Change Directives, EUR-CP shall be converted to CAD at spot rates as agreed by the Parties.
4. Following approval of the Change Directive, the EUR-CP amounts specified in the Change Directive will be hedged in accordance with this Schedule 7.1, Attachment 7.1(f). After hedging the EUR-CP amounts and following validation by OPG as contemplated in items 9 and 10 below, the Contractor will use the new hedged rate to convert the EUR-CP to CAD and the Contract Price will be adjusted to reflect the updated CAD value of the EUR-CP Goods in the Change Directive.
5. When the adjustment to EUR-CP in accordance with item 3 a) or b) is negative, the Contractor shall sell EUR currency forward contract to reduce the remaining hedged EUR-CP.
6. When the adjustment to EUR-CP in accordance with item 3 a) or b) is positive, the Contractor shall buy EUR currency forward contract to increase the remaining hedged EUR-CP.
7. The Contractor shall buy Euro currency forward contracts for the full amount of the remaining EUR-CP ("Notional Amount") in order to mitigate the Euro FX risk during the term of the Agreement. The maturity date of the forward contract will be the next applicable payment date.
8. At each payment date, the Notional Amount will be adjusted to the remaining EUR-CP for the next forward contract to be established in accordance with item 7.
9. The Contractor will provide details to OPG representatives of the hedging costs to be submitted for payment which shall include copies of external FX confirmations to support the hedging cost.
10. The OPG representatives shall review the hedging costs submitted pursuant to section 7.2 of the Agreement.
11. Upon approval of the adjustments to the Contract Price in accordance with items 2 to 7, and following the review and acceptance contemplated in item 10, the Contractor shall submit an Application for Payment in accordance with the Milestone Payment Schedule.

*Amendment No. 2 to the Engineering Services and Equipment Supply Agreement
for the Darlington Turbine Generators Refurbishment Project made as of March 27, 2013*

DNGS-Refurb-225240

12. The Contractor shall monitor and track the hedging costs during the term of the Agreement.
The additional hedging cost will be calculated at each roll date based on the difference between the spot rate, forward rate and the FX exposure amount in Euro currency.
13. The Milestone Payment Schedule shall reflect the CAD value of EUR-CP as established in item 2.
The Milestone Payment Schedule will be updated by the Contractor for adjustments to EUR-CP at the CAD value as established in items 2 to 7. An updated Milestone Payment Schedule including hedging costs will be submitted to OPG for approval as part of an amendment to the Agreement or from time to time as required.
14. The Contractor shall maintain a report ("Hedging Report") of the tracking of the hedging costs throughout the term of the Agreement. The Hedging Report will provide the hedging costs (inception to date) and provide sufficient detail to show a history and explanation of actual and forecast hedging costs for Goods purchased in Euro currency and changes to date.

Worksheet 21 - Change Directives Price Adjustment due to Hedging

CD#009 Turbine Generators ESES		CD ex. rate		1.4262 (Sep 16,14)		Hedged on May 22,2015		1.36186
Changes Directives	Original total price(CAD) [a]	Fixed/Firm	EURO portion (CAD) [b]	Canadian portion(CAD) [c=a-b]	EURO to be hedged (EUR) [d=b/ex]	Hedged Rate [e]	CAD equivalent of EURO [f=d*e]	Revised total price (CAD) [g=c+f]
CD#009	89,850		72,217	17,633	50,636		68,959	86,592
Diff. between CD price and Adjusted price@Hedged rate								(3,258)

CD#007 Scope Reduction-HMI Engineering Station in Ucer		CD ex. rate		1.4709 (Dec 16,14)		Hedged on May 22,2015		1.36186
Unit	Original total price(CAD) [a]	Fixed/Firm	EURO portion (CAD) [b]	Canadian portion(CAD) [c=a-b]	EURO to be hedged (EUR) [d=b/ex]	Hedged Rate [e]	CAD equivalent of EURO [f=d*e]	Revised total price (CAD) [g=c+f]
CD#007	(139,808)		(113,525)	(26,283)	(77,181)		(105,109)	(131,392)
Diff. between CD price and Adjusted price@Hedged rate								8,416

CD#010 Deferral and unlapping		CD ex. rate		1.3318 (Apr 14,15)		Hedged on May 22,2015		1.36186
Item	Original Price (CAD)	Fixed/Firm	EU Portion (KCAD)	CA Portion (KCAD)	EU Portion (in KEUR)	Hedged Rate [e]	CAD equivalent of EURO [f=d*e]	Revised total price (CAD) [g=c+f]
CD#010	12,700,000		9,187,454	3,512,546	6,898,524		9,394,824	12,907,370
Diff. between CD price and Adjusted price@Hedged rate								207,370

CD#012 PRV and valves for the seal oil system		CD ex. rate		1.3922 (Jun 18, 2015)		Hedged on Aug 31 ,2015		1.49486
Unit	Original total price(CAD) [a]	Fixed/Firm	EURO portion (CAD) [b]	Canadian portion(CAD) [c=a-b]	EURO to be hedged (EUR) [d=b/ex]	Hedged Rate [e]	CAD equivalent of EURO [f=d*e]	Revised total price (CAD) [g=c+f]
CD#012 Total	283,712		234,847	48,865	168,688		252,164	301,030
Diff. between CD price and Adjusted price@Hedged rate								17,317

CD#015 Additional work provided by the contractor in connection with action #828 UA Fabrication clause requirement		CD ex. rate		1.4513 (Oct 26, 2015)		Hedged on Jan 11,2016		1.53745
Unit	Total price(CAD)	Fixed/Firm	Cost Element subject to Adjustment \$(CAD) (Schedule 5.6)	Canadian portion(CAD) [c=a-b]	Amount subject to Hedging €EUR (Schedule 7.1f)	Hedged Rate [e]	CAD equivalent of EURO [f=d*e]	Revised total price (CAD) [g=c+f]
Unit 3 UA Associated Costs	156,383	Fixed		19,961	94,000	1.53745	144,520	164,481
Unit 1 UA Associated Costs	83,382	Firm		11,542	49,500	1.53745	76,104	87,646
Unit 4 UA Associated Costs	83,382	Firm		11,542	49,500	1.53745	76,104	87,646
Unit 2 2nd outage UA Associated Costs	83,382	Firm		11,542	49,500	1.53745	76,104	87,646
Total	406,528		-	34,627.03	242,500		372,832	427,419
CD exchange rate: 1.4513 @ 2015-10-26 Bank of Canada								20,891
Diff. between CD price and Adjusted price@Hedged rate								20,891

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CD#016 Turbine controls and Excitation controls software qualification			CD ex. rate		1.3922 (Jun 18, 2015)		Hedged on		Jan 11,2016		1.5375	
Unit	Total price(CAD)	Fixed/Firm	Cost Element subject to Adjustment \$(CAD) (Schedule 5.6)	Canadian portion(CAD) [c=a-b]	Amount subject to Hedging €EUR (Schedule 7.1f)	Hedged Rate [e]	CAD equivalent of EURO [f=d*e]	Revised total price (CAD) [g=c+f]				
40% upon signing of change directive(TC)	83,522	Fixed			59,316	1.53745	91,195	91,195				
40% upon signing of change directive(EC)	103,958	Fixed			73,828	1.53745	113,507	113,507				
60% after the submission /acceptance of the full software qualification report(TC)	125,284	Fixed			88,973	1.53745	136,792	136,792				
60% after the submission /acceptance of the full software qualification report(EC)	155,937	Fixed			110,743	1.53745	170,261	170,261				
Total	468,700		-	-	332,860		511,756	511,756				
CD exchange rate: 1.4081 @ 2015-11-30 Bank of Canada			1.4081									
Diff. between CD price and Adjusted price@Hedged rate					43,055							

CD#018 DNGS-ST- Additional Outage Spare Parts			CD ex. rate		1.47167 (March 21, 2016)		Hedged on		Apr 18,2016		1.45953	
Unit	Total price(CAD)	Fixed/Firm	Cost Element subject to Adjustment \$(CAD) (Schedule 5.6)	Canadian portion(CAD) [c=a-b]	Amount subject to Hedging €EUR (Schedule 7.1f)	Hedged Rate [e]	CAD equivalent of EURO [f=d*e]	Revised total price (CAD) [g=c+f]				
U2 ST_Unit Material Staged(TSSM)	76,810	Fixed		20,606	38,193	1.45953	55,743	76,349				
Total	76,810		-	-	38,193		55,743	76,349				
CD exchange rate: 1.47167 @ 2016-03-21 Bank of Canada			1.4716									
Diff. between CD price and Adjusted price@Hedged rate					(461)							

CD#019 SFSMS Layout/Configuration Change			CD ex. rate		1.4808 (Feb 26, 2016)		Hedged on		Apr 18,2016		1.45953	
Unit	Total price(CAD)	Fixed/Firm	Cost Element subject to Adjustment \$(CAD) (Schedule 5.6)	Canadian portion(CAD) [c=a-b]	Amount subject to Hedging €EUR (Schedule 7.1f)	Hedged Rate [e]	CAD equivalent of EURO [f=d*e]	Revised total price (CAD) [g=c+f]				
100% Upon submission of the modified documentation by GE to OPG for review	48,954.0	Fixed		6,853.4	28,431.0	1.45953	41,496	48,349				
Total	48,954.0		-	6,853.4	28,431.0		41,496	48,349				
CD exchange rate: 1.4808 @ 2016-02-26 Bank of Canada			1.4808									
Diff. between CD price and Adjusted price@Hedged rate					(605)							

Attachment D

See attached revised Schedule 9.6(a) (Illustration of Warranty Period)

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Schedule 9.6(a) Illustration of Warranty Period
as sold vs. revised dates due to contract change

