

OPG CONFIDENTIAL

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**ENGINEERING, PROCUREMENT
AND CONSTRUCTION
AMENDMENT AGREEMENT #2**

between

OPG

and

**Aecon Construction Group Inc. and
SNC-Lavalin Nuclear Inc.**

April 12, 2016

**Confidential
&
Commercially Sensitive**

**ONTARIOPOWER
GENERATION**

AMENDMENT AGREEMENT NUMBER 2

(EXECUTION PHASE AMENDMENT)

This Amendment Agreement Number 2 (this "**Agreement**") is made as of April 12, 2016, between:

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

-and-

AECON CONSTRUCTION GROUP INC., a corporation existing under the laws of Canada, and **SNC-LAVALIN NUCLEAR 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 TG, a Joint Venture".

Recitals

- A. OPG and the Contractor entered into an engineering, procurement and construction agreement for the turbine generator refurbishment project made as of January 22, 2014, as amended as of March 01, 2016 (the "**Original Agreement**"). Under the Original Agreement, the Contractor is obliged to perform the Work and provide the Goods for the Project 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 reflect their agreement on the Execution Phase Plan in accordance with section 2.7(d) of the Original Agreement and certain other related matters.

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.

*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

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2. Change to Section 2.10(b) (Contingency Work)

Section 2.10(b) (Contingency Work) of the Original Agreement is changed by:

- (a) deleting the second sentence in its entirety and replacing it with the following:

"If OPG and the Contractor reach agreement on all components of the Contingency Work Specifications together with any required changes to the Contract Schedule, the Submittal Schedules, the Progress Schedules or the Contract Price, as the case may be, OPG will promptly issue a Project Change Directive for such Contingency Work which will then be evidenced by an Amendment reflecting the agreed changes. "; and

- (b) deleting the last sentence in its entirety and replacing it with the following:

"No Contingency Work will be conducted on a Unit prior to the execution of a Project Change Directive by OPG for such Contingency Work."

3. Change to Section 5.1(b) (Reasons for Project Change Directive)

Section 5.1(b) (Reasons for Project Change Directive) of the Original Agreement is changed by:

- (a) deleting "or" at the end of item (7);

- (b) adding the following as new item (8):

"a direction by OPG to change the manner in which weekly hours of work are allocated (in accordance with section 5.9);

- (c) renumbering former items (8) and (9) and items (9) and (10) respectively; and

- (d) replacing "and" with "or" at the end of renumbered item (9).

4. Addition of New Section 5.9 (Allocation of Weekly Hours of Work)

The following new paragraph is added to the Original Agreement as a new section entitled "Allocation of Weekly Hours of Work":

"5.9 Allocation of Weekly Hours of Work

The Contractor will engage trade labour to perform the Execution Phase Work based on weekly hours of work of 50 hours made up of five consecutive ten hour shifts consisting of eight hours at the basic rate plus two hours at one and one-half times the basic rate. If OPG directs the Contractor to change the manner in which the weekly hours of work are allocated between the two rates, the Contractor, acting reasonably, will promptly provide OPG's Representative with written Notice detailing any necessary changes to the Work, the Execution Phase Target Schedule and/or the Execution Phase Target Cost and the Execution Phase Fixed Fee. OPG's Representative will consider such necessary changes and will provide a prompt direction to the Contractor, by way of a Project Change Directive, to implement changes to the Work, the Execution Phase Target Schedule and/or the Execution Phase Target Cost and the Execution Phase Fixed Fee to the extent agreed by OPG. Upon receipt of any such Project Change Directive, the Contractor will comply with such Project Change Directive, provided that any Dispute regarding necessary changes to the Work, the Execution Phase Target Schedule and/or the Execution Phase Target Cost and the Execution Phase Fixed Fee will be subject to resolution in accordance with Section 11. Notwithstanding the foregoing, in the event of a Dispute, any undisputed amounts payable in respect of such Project Change Directive will be paid by OPG in accordance with Section 7.2. For clarity, this section 5.9 applies only to changes in allocation within the planned 50 hour week and not to any overtime otherwise required by the Contractor to complete the Work."

5. Change to Section 6.2(a) (Excusable Delays)

Section 6.2(a) (Excusable Delays) of the Original Agreement is changed by deleting item (6) it in its entirety and replacing it with the following:

"a latent defect in the turbine hall cranes (the "**Cranes**") or a failure of the Cranes beyond the Contractor's reasonable control which restricts, delays or prevents the operation or use of one or both of the Cranes, except to the extent such failure of the Cranes was caused or contributed to by: (i) Defects in the Goods or Work provided or performed by the Contractor under this Agreement; or (ii) the Contractor's failure to operate or maintain one or both of the Cranes in accordance with the Specifications, Prudent Practices or the Cranes' operating manuals,".

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6. Change to Schedule 2.7(a)(1) (Contract Schedule)

Schedule 2.7(a)(1) (Contract Schedule) of the Original Agreement is deleted in its entirety and replaced with the revised document entitled "Schedule 2.7(a)(1) – Contract Schedule" attached to this Agreement as Attachment A.

7. Change to Schedule 2.7(a)(2) (Progress Schedules)

Schedule 2.7(a)(2) (Progress Schedules) of the Original Agreement is changed by adding the document entitled "Execution Phase Progress Schedule" attached to this Agreement as Attachment B immediately following the Definition Phase Progress Schedule.

8. Change to Schedule 2.7(a)(3) (Submittal Schedules)

Schedule 2.7(a)(3) (Submittal Schedules) of the Original Agreement is changed by adding the document entitled "Execution Phase Submittal Schedule" attached to this Agreement as Attachment C immediately following the Definition Phase Submittal Schedule.

9. Change to Schedule 2.8(a) (Submittal Review Periods)

Schedule 2.8(a) (Submittal Review Periods) of the Original Agreement is deleted in its entirety and replaced with the revised document entitled "Schedule 2.8(a) – Submittal Review Periods" attached to this Agreement as Attachment D.

10. Change to Schedule 2.8(b)(1) (Submittal Requirements)

Schedule 2.8(b)(1) (Submittal Requirements) of the Original Agreement is deleted in its entirety and replaced with the revised document entitled "Schedule 2.8(b)(1) – Submittal Requirements" attached to this Agreement as Attachment E.

11. 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 document entitled "Schedule 7.1 – Contract Price" attached to this Agreement as Attachment F.

The Parties have duly executed this Agreement.

For Name: Stephun Cliver
Title: Chief Supply Officer

Name: Ian Turnbull
Title: Sr. V.P.

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

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ATTACHMENT A**Schedule 2.7(a)(1) – Contract Schedule****(a) Definition Phase Milestones.**

The purpose of the Definition Phase is to complete all the required Work and produce the required Submittals in support of the Execution Phase and to establish the Execution Phase Target Cost in accordance with the Specifications and Schedule 2.7(d).

Definition Phase Milestones

<i>Milestone</i>	<i>Definition/Completion Criteria</i>	<i>Milestone Date</i>
Baseline Schedule	Contractor will submit a level 3 resource loaded Definition Phase schedule to identify the number of person-hours required for each activity in the schedule. The schedule must consider OPG review periods as applicable, contains activity codes per OPG provided WBS structure and complete critical path analysis based on activities logic ties. The baseline schedule will be used to measure Contractor's performance in accordance with milestones and agreed upon earning rules. Milestone is declared complete upon OPG acceptance of the schedule.	60 days after the date of this Agreement for draft and final 30 days later (applicable to DNGS Unit 2 only)

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Milestone	Definition/Completion Criteria	Milestone Date
Cooperation Agreement	Contractor will enter into and accept tri-partite Cooperation Agreement with OPG and the ESES contractor. The Agreement will be developed in accordance with and based on key principles previously agreed upon by all involved parties. Milestone is declared complete upon Contractor's sign off.	90 days after the date of this Agreement (applicable to all four DNGS Units)
Engineering Change Control / Engineered Tooling Documentation	The Contractor is to build an integrated Progress Schedule in alignment with the ESES Deliverables Schedule and the COIR and to commence and complete all required engineering activities (note: this is to include all ESES Vendor engineered equipment/ solutions). This also includes all relevant design packages and engineered tooling documentation required for the Execution Phase. The milestone is declared complete upon OPG acceptance of all design packages, completion assurance requirements, AFS strategy, and related documentation / information to be ready for issuance of notice-to-proceed with field installation prerequisites (see Modification Installation Work Plans).	<p>First Release – Acceptance of Design Completion Assurance Verification Review (the "DCAVR"): July 31, 2015 (applicable to DNGS Unit 2 only)</p> <p>** Second Release – Completion of exempted items from DCAVR process as concurred by OPG Design Authority: March 31, 2016 (applicable to DNGS Unit 2 only)</p>

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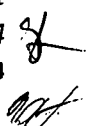
EXECUTION VERSION

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Milestone	Definition/Completion Criteria	Milestone Date
Project Management Plan – Definition Phase	<p>The Contractor is to develop and deliver to OPG a detailed project management plan (“PMP”) for the Definition Phase of the Project. This document will outline the Contractor’s management plans, including the following areas:</p> <ul style="list-style-type: none"> • Safety/ Environment • Engineering • Quality • Resources/staffing • Tooling and materials • Fabrication • Waste • Project control • Project Integration • Communication • Risk Register • Space allocation <p>Milestone is declared complete upon OPG acceptance of the Definition Phase PMP.</p>	February 28, 2014 (applicable to all four DNGS Units)
Initial Work Assessment(s)	<p>The Contractor is to identify all long lead materials, support tasks and any pre/post-requisites associated with the Execution Phase Work. Milestone is declared complete upon entering the information in the required OPG work management system.</p>	September 30, 2014 (applicable to DNGS Unit 2 only)

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Milestone	Definition/Completion Criteria	Milestone Date
Project Management Plan - Execution Phase	<p>The Contractor is to develop and deliver to OPG a detailed PMP for the Execution Phase of the Project. This document will outline the Contractor's management plans including the following areas:</p> <ul style="list-style-type: none"> • Safety/ Environment • Engineering • Quality • Resources/staffing • Tooling and materials • Fabrication • Waste • Project control • Project Integration • Communication • Space allocation <p>Milestone is declared complete upon OPG acceptance of the Execution Phase PMP.</p>	October 31, 2014 (applicable to all four DNGS Units)
Execution Phase Risk Register	The Execution Phase Risk Register is complete in accordance with Schedule 2.7(d) and has been agreed to and accepted by OPG.	November 30, 2014 (applicable to all four DNGS Units)
Maintenance Procedures	The Contractor is to develop and deliver to OPG maintenance procedures with usage classifications and related quality assurance documents for the maintenance-based Execution Phase Work in alignment with ESES Vendor and OPG supplied reference materials. Milestone is declared complete upon OPG	July 15, 2015 (applicable to DNGS Unit 2 only)

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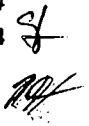
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Milestone	Definition/Completion Criteria	Milestone Date
	acceptance of all maintenance procedures.	
Modification Installation Work Plans	Upon completion of detailed engineering for each modification work package, the Contractor is to develop and deliver to OPG installation work plans and related quality assurance documents. Milestone is declared complete upon OPG acceptance of all modification installation work plans.	July 15, 2016 (applicable to DNGS Unit 2 only)
Commissioning Requirements/Specifications	Contractor shall develop a set of commissioning requirements/specifications for static and dynamic (related to their scope) commissioning for all modification work packages (except for Deferred Modification Work in Unit 2) and present it to OPG Design Authority or delegate for review / acceptance (note: all commissioning work to be completed in accordance with OPG Available-for-Service (AFS) requirements as defined in the AFS Strategy prepared in the	July 31, 2016 (applicable to DNGS Unit 2 only)

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Milestone	Definition/Completion Criteria	Milestone Date
	Definition Phase). Upon OPG acceptance of the commissioning requirements/specifications, Contractor is to develop static commissioning workplan(s) for all planned modifications. Milestone is declared complete upon OPG acceptance of commissioning requirements / specifications.	
Execution Phase Target Cost & Schedule	<p>The Contractor is to develop and deliver to OPG, in accordance with Schedule 2.7(d), an initial Execution Phase Cost Estimate (AACE Class 4) followed by an interim Execution Phase Cost Estimate (AACE Class 3). Further, the Contractor is to develop and deliver to OPG, in accordance with Schedule 2.7(d), Class 2 (RQE) Cost Estimate / Level 5 Schedule for Unit 2 only. Based on its Class 2 (RQE) Cost Estimate / Level 5 Schedule for Unit 2 only, the Contractor is to develop and deliver to OPG, in accordance with Schedule 2.7(d), Execution Phase Cost Estimate (AACE Class 3) / Level 4 Execution Phase Progress Schedule for Units 3, 1 and 4. All Execution Phase Cost Estimates are to be submitted to and accepted by OPG. Milestones are declared complete upon OPG acceptance</p>	<p>Class 4 Cost Estimate / Level 3 Schedule: May 31, 2014 (applicable to all four DNGS Units)</p> <p>Class 3 Cost Estimate / Level 4 Schedule: September 30, 2014 (applicable to all four DNGS Units)</p> <p>Class 2 (RQE) Cost Estimate / Level 5 Schedule: March 31, 2015 (applicable to DNGS Unit 2 only)</p> <p>Hybrid Execution Phase Cost Estimate AACE Class 2 and Level 5 Execution Phase Progress Schedule for Unit 2 and estimate AACE</p>

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Milestone	Definition/Completion Criteria	Milestone Date
	<p>of the respective Execution Phase Cost Estimates / Progress Schedules. The Contractor is to submit Execution Phase Progress Schedules for each of the corresponding Execution Phase Cost Estimates for acceptance by OPG.</p> <p>The Execution Phase Cost Estimate AACE Class 2 (RQE) and Level 5 Execution Phase Progress Schedule for Unit 2 and the Execution Phase Cost Estimate AACE Class 3 and Level 4 Execution Phase Progress Schedule for Units 3, 1 and 4 will be used as the basis for an agreed upon Execution Phase Target Cost and Execution Phase Progress Schedule in accordance with Schedule 2.7(d).</p>	<p>Class 3 and Level 4 Execution Phase Progress Schedule for Units 3, 1 and 4: November 15, 2015 (applicable to all four DNGS Units)</p>
PC1s Prepared (Segment 1)	Contractor will prepare all required PC1s (Segment 1), excluding Additional Maintenance Work. Milestone is declared complete upon OPG acceptance.	January 29, 2016 (applicable to DNGS Unit 2 only)
Final Work Assessments (for Additional Maintenance Work)	Contractor will submit all required field execution requests, input additional work order/tasks, ensure all regulatory approvals have been obtained, and all tasks / documents for OPG's work management are complete. Milestone is declared complete upon OPG acceptance	February 16, 2016 (applicable to DNGS Unit 2 only)

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Milestone	Definition/Completion Criteria	Milestone Date
PC1s Prepared (Segments 2,3,4)	Contractor will prepare all required PC1s (Segments 2,3,4), excluding Additional Maintenance Work. Milestone is declared complete upon OPG acceptance	April 15, 2016 (applicable to DNGS Unit 2 only)
Comprehensive Work Packages (for Additional Maintenance Work)	The Contractor is to develop and deliver to OPG comprehensive work packages. Milestone is declared complete upon OPG final acceptance of all comprehensive work packages.	March 31, 2016 (applicable to DNGS Unit 2 only)

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(b) Execution Phase Milestones

Execution Phase milestones are applicable to all DNGS Units, unless Unit applicability is specified in the milestone description. The following dates are planning dates for the 1st Unit to be refurbished only (Unit 2). Planning dates will be provided and confirmed for subsequent Units (Unit 1, 3, and 4).

Execution Phase Milestones

<i>Milestone</i>	<i>Definition/Completion Criteria</i>	<i>Clarifications/Milestone Date/Unit</i>
Unit Breaker Open date	The date when one of the DNGS Units is disconnected from the grid that starts the specific Unit refurbishment outage.	Unit 2: October 15, 2016 Unit 3: TBD Unit 1: TBD Unit 4: TBD
Level 5 Progress Schedule for Units 3, 1 and 4	The Contractor is to develop and deliver to OPG, in accordance with Schedule 2.7(d), a Level 5 Schedule for each of the Units 3, 1 and 4, using the Level 4 Execution Phase Progress Schedule for each of such Units as a baseline and taking into account lessons learned from the Unit that was completed prior to each of such Unit Breaker Open Dates.	Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
Engineering Change Control / Engineered Tooling Documentation	The Contractor is to build an integrated Progress Schedule in alignment with the ESES Deliverables Schedule and the COIR and to commence and complete all required engineering activities (note: this is to include all ESES Vendor engineered equipment/solutions). This also includes all relevant design packages and engineered tooling documentation required for the Execution Phase. The milestone is declared complete upon OPG acceptance of all design packages, completion assurance requirements, AFS strategy, and related documentation / information to be ready for issuance of notice-to-proceed with field installation prerequisites (see Modification Installation Work Plans).	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD
Initial Work Assessment(s)	The Contractor is to identify all long lead materials, support tasks and any pre/post-requisites associated with the Execution Phase Work. Milestone is declared complete upon entering the information in the required OPG work management system.	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
Maintenance Procedures	The Contractor is to develop and deliver to OPG maintenance procedures with usage classifications and related quality assurance documents for the maintenance-based Execution Phase Work in alignment with ESES Vendor and OPG supplied reference materials. Milestone is declared complete upon OPG acceptance of all maintenance procedures.	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD
Modification Installation Work Plans	Upon completion of detailed engineering for each modification work package, the Contractor is to develop and deliver to OPG installation work plans and related quality assurance documents. Milestone is declared complete upon OPG acceptance of all modification installation work plans.	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
Commissioning Requirements/Specifications	Contractor shall develop a set of commissioning requirements/specifications for static and dynamic (related to their scope) commissioning for all modification work packages (except for Deferred Modification Work in Unit 2) and present it to OPG Design Authority or delegate for review / acceptance (note: all commissioning work to be completed in accordance with OPG Available-for-Service (AFS) requirements as defined in the AFS Strategy prepared in the Definition Phase). Upon OPG acceptance of the commissioning requirements/specifications, Contractor is to develop static commissioning workplan(s) for all planned modifications. Milestone is declared complete upon OPG acceptance of commissioning requirements / specifications.	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD
PC1s Prepared (Segment 1)	Contractor will prepare all required PC1s (Segment 1), excluding Additional Maintenance Work. Milestone is declared complete upon OPG acceptance.	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD

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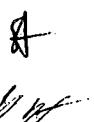
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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
Final Work Assessments (for Additional Maintenance Work)	Contractor will submit all required field execution requests, input additional work order/tasks, ensure all regulatory approvals have been obtained, and all tasks / documents for OPG's work management are complete. Milestone is declared complete upon OPG acceptance	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD
PC1s Prepared (Segments 2,3,4)	Contractor will prepare all required PC1s (Segments 2,3,4), excluding Additional Maintenance Work. Milestone is declared complete upon OPG acceptance	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD
Comprehensive Work Packages (for Additional Maintenance Work)	The Contractor is to develop and deliver to OPG comprehensive work packages. Milestone is declared complete upon OPG final acceptance of all comprehensive work packages.	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
Material Delivery / Staging	All required materials have been delivered / staged at the Contractor's warehouse / staging area or other area(s) as agreed to by OPG. The Contractor will complete all receipt inspection activities (ESES Vendor supplied materials and any self procured materials). Milestone is declared complete once all material has been delivered, received, and staged at the Contractor's warehouse / staging area and submission of inspection records. This milestone does not include ESES Vendor supplied material which is subject to installation deferral to the 2 nd Refurbishment Unit.	Unit 2: July 15, 2016 Unit 3: TBD Unit 1: TBD Unit 4: TBD
Field Crew Mobilization	The Contractor will conduct a mark up meeting and submit a hire-on plan to OPG for review and acceptance. Milestone is declared complete upon OPG acceptance of the hire-on plan.	3 months prior to the Unit Breaker Open Date Unit 2: July 15, 2016 Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
OPG Site Specific Training	The Contractor will complete all security clearance requirements and roster and complete all OPG site-specific training required for field execution. Milestone is declared complete upon successful completion of OPG site-specific training requirements.	Unit 2: July 31, 2017 Unit 3: TBD Unit 1: TBD Unit 4: TBD
Tooling Fabrication	The Contractor will complete fabrication, procurement, quality inspection and pre-requisites for all tooling required for field installation / execution. Milestone is declared complete upon OPG acceptance.	Unit 2: July 15, 2016 Unit 3: TBD Unit 1: TBD Unit 4: TBD
Final Work Assessment	Contractor will submit all required field execution requests (e.g. hot work permit etc, not including PC1's), input additional work order/tasks, ensure all regulatory approvals have been obtained, and all tasks / documents for OPG's work management are complete / tasks set to ready. Milestone is declared complete upon OPG acceptance.	Unit 2: April 15, 2016 Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
PC1's Submitted	All required PC1's for the outage scope have been submitted to Operations. Milestone will be declared complete upon all PC1's submitted and PC1 metrics (workdown curve, etc) indicating completion.	Unit 2: April 21, 2016 Unit 3: TBD Unit 1: TBD Unit 4: TBD
Installation Segment Readiness Assessment Complete	Review all aspects of installation segment execution readiness. Milestone will be declared complete upon completion of Challenge Meeting with all outstanding items dispositioned and accepted by OPG.	Unit 2: August 1, 2016 Unit 3: TBD Unit 1: TBD Unit 4: TBD
Refurb Outage Pre-Requisites Complete	Execute the pre-requisites work schedule such that all outage pre-requisite tasks are complete. Milestone will be declared complete upon all pre-requisite work order tasks set to closed and pre-outage metrics (workdown curve, etc) indicate all pre-requisites complete.	Unit 2: September 1, 2016 Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
Start of Main Turbine Generator Work Window	The Unit shutdown, permitry and isolation is in place (sources of energy have been isolated and de-energized for the work area) and the Unit work area has been released to the Contractor for field work to begin. Start of the Contractor installation activities / window and includes Static Commissioning.	Unit 2: June 1, 2017 Unit 3: TBD Unit 1: TBD Unit 4: TBD
Commissioning Workplan(s)	Contractor will develop all necessary commissioning workplan(s) required for the Execution Phase scope and work. Dynamic commissioning work plans will be developed during the Execution Phase in accordance with previously accepted commissioning requirements during the Definition Phase and the System AFS strategy. Milestone is declared complete upon OPG acceptance of the commissioning workplan(s).	Unit 2: N/A Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
Mechanical Completion (Removal/Modification Installation/Maintenance/Disassembly/Reassembly/Static Commissioning)	The Contractor will execute all field removal/ installation/ maintenance activities in accordance with integrated refurbishment schedule, work plans / procedures, and field installation / execution / testing / commissioning / etc. requirements. Milestone is declared complete upon completion of all field installation and static commissioning work, completion of Construction Completion Declaration (CCD), OPG acceptance of all applicable documentation, records, and declaration form(s) required for the work. This milestone is in respect to the TG work window (proper); removal of layup modifications tied to startup of the Unit shall be tracked in a separate milestone.	Unit 2: April 16, 2018 Unit 3: TBD Unit 1: TBD Unit 4: TBD

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Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
Removal of Layup Mods (Layup Mods removal required for lead-up to Unit Breaker close)	The Contractor will execute all field removals of layup modifications in accordance with integrated refurbishment schedule, work plans / procedures, and field installation / execution / testing / commissioning / etc. requirements. Milestone is declared complete upon completion of all field removal work prior to Unit startup, OPG acceptance of all applicable documentation, records, and declaration form(s) required for the work.	Unit 2: May 19, 2019 Unit 3: TBD Unit 1: TBD Unit 4: TBD
Modification AFS Declaration	Contractor will demonstrate that all activities and requirements pertaining to commissioning of the installed layup modifications have been completed in accordance with accepted layup commissioning plan. Disposition of any outstanding action(s) after the completion of the commissioning will meet all interim milestone requirements and prescribed timelines. Milestone is declared complete upon OPG acceptance / approval of Modification AFS Declaration.	Unit 2: September 19, 2019 Unit 3: TBD Unit 1: TBD Unit 4: TBD

*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

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EXECUTION VERSION

Attachment A; Page 20 of 21

Milestone	Definition/Completion Criteria	Clarifications/Milestone Date/Unit
System AFS Readiness / Dynamic Commissioning	Starts at preparation of 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 12 weeks. Contractor will provide support during Dynamic Commissioning in accordance with Specifications and provide/manage the required resources with the right level of skill set. Contractor will rectify all deficiencies (if any) during Dynamic Commissioning in accordance with terms and conditions in the Agreement. Milestone is declared complete upon successful completion of Dynamic Commissioning and acceptance by OPG.	Two months after notification by OPG Unit 2: TBD Unit 3: TBD Unit 1: TBD Unit 4: TBD

*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

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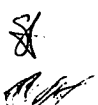
EXECUTION VERSION

Attachment A; Page 21 of 21

<i>Milestone</i>	<i>Definition/Completion Criteria</i>	<i>Clarifications/Milestone Date/Unit</i>
Unit Closeout	Contractor will submit all required documentation related to their scope of work for Unit start up. Milestone declared complete upon OPG acceptance of documentation. All Unit Available-for-Service (AFS) documentation is complete. Vender demobilization and equipment removal/clean-up is complete. As-builts and updates to all Unit documentation is complete.	Unit 2: April/May, 2020 Unit 3: TBD Unit 1: TBD Unit 4: TBD

*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

DNGS-REFURB-232344



ATTACHMENT B

Schedule 2.7(a)(2) - Progress Schedule

The Schedule 2.7(a)(2) - Progress Schedule consists of the following schedules:

1. DNGS TG Unit 2 - Execution Phase Level 5 Schedule
2. DNGS Lay-up Unit 2 - Execution Phase Level 5 Schedule
3. DNGS TG Unit 3 - Execution Phase Level 4 Schedule
4. DNGS TG Unit 1 - Execution Phase Level 4 Schedule
5. DNGS TG Unit 4 - Execution Phase Level 4 Schedule



Date Printed: 11-May-15 Project ID: 73277-L5-A		DN GS TG Unit 2 - Execution Phase Level 5 Schedule				Data Date: 14-Aug-15 Layout Name: TGR-L5 - CA and WP Level Activities 2of 10																							
Activity ID	Activity Name	OD	Start	Finish	Total Float																								
						2016				2017				2018				2019											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
7327751208	Initial Strain Gauge Alignment	80	14-Oct-16	26-Oct-16	308																								
73277M0540	MSR First Air Hold Testing Complete	0		24-Oct-16	1473																								
7327751204	CD2 Phase 1 Pre Req's	90	26-Oct-16	08-Nov-16	218																								
73277M0590	Phase 1 Pre-Req. Finish	0		23-Nov-16	118																								
73277M0600	Phase 1 MTC Start	0	01-Dec-16*		58																								
7327751400	TG and Condenser Work Phase	1366	01-Dec-16	22-Jun-17	1522																								
7327751401	CD1, TG Phase 1 MTCE	1160	01-Dec-16	25-May-17	1728																								
7327751402	CD2, TG Phase 1 MTCE	1120	01-Dec-16	18-May-17	1615																								
7327751403	CD3, TG Phase 1 MTCE	1150	01-Dec-16	24-May-17	1735																								
7327751406	Ct & HV Bushing - Removal of Air Box, TG Phase 1 MTCE	495	01-Dec-16	15-Feb-17	2388																								
7327751800	Turbine & Generator Major Overhaul Pre Req's	1162	06-Dec-16	30-May-17	1676																								
7327751808	Inspect LP1 Pre Req's	1129	06-Dec-16	25-May-17	879																								
73277M0300	Start CT Replacement	0	07-Dec-16		411																								
7327751408	Current Transformer Removal, TG Phase 1 MTCE	190	31-Jan-17	28-Feb-17	633																								
7327751410	High Voltage Bushing Replacement, TG Phase 1 MTCE	266	28-Feb-17	05-Apr-17	1177																								
7327751404	Trombik, TG Phase 1 MTCE	140	20-Mar-17	07-Apr-17	360																								
7327751802	Bearing Pre-Requisites	259	20-Mar-17	26-Apr-17	241																								
7327751804	Turbine Pre-Requisites	484	20-Mar-17	30-May-17	16																								
7327751806	Tooling Pre-req	451	20-Mar-17	25-May-17	49																								
7327751810	MSCV Pre Req's	276	20-Mar-17	28-Apr-17	1884																								
7327751812	MSR Pre Req's	456	20-Mar-17	25-May-17	1689																								
7327751816	Hood Spray Pre Req's	5	20-Mar-17	20-Mar-17	495																								
7327751840	FRF Pre Req's	369	20-Mar-17	11-May-17	1088																								
7327751842	Intercept Valve Pre Req's	294	20-Mar-17	02-May-17	1526																								
7327751844	Lube Oil Pre Req's	309	20-Mar-17	03-May-17	1696																								
7327751824	Inspect LP2 Pre Req's	10	20-Mar-17	21-Mar-17	342																								
7327751848	Tromblik Pre Req's	154	21-Mar-17	11-Apr-17	296																								
7327751826	Inspect LP3 Pre Req's	5	21-Mar-17	21-Mar-17	342																								
7327751858	Hydregon Cooling Pre Req's	235	21-Mar-17	25-Apr-17	1800																								
7327751830	LP1 Dis-assembly Pre Req's	201	22-Mar-17	21-Apr-17	174																								
7327751860	SCW Pre Req's	45	22-Mar-17	28-Mar-17	430																								
7327751832	LP2 Dis-assembly Pre Req's.	196	23-Mar-17	24-Apr-17	174																								
7327751834	LP3 Dis-assembly Pre Req's	196	24-Mar-17	25-Apr-17	174																								
7327751862	Seal Oil Pre Req's	140	27-Mar-17	13-Apr-17	1675																								
7327751852	Generator Disassembly Pre Req's	325	29-Mar-17	16-May-17	100																								
7327751854	Genertor Rotor Inspection Pre Req's	20	30-Mar-17	31-Mar-17	342																								
7327751846	Gland Steam Pre Req's	19	31-Mar-17	03-Apr-17	16																								
7327751856	Genertor Stator Inspection Pre Req's	100	03-Apr-17	18-Apr-17	300																								
7327751412	Current Transformers Installation, TG Phase 1 MTCE	180	05-Apr-17	03-May-17	1177																								
7327751864	Instrumental Removal Pre Req's	62	10-Apr-17	20-Apr-17	121																								
7327751850	Extraction Steam Pre Req's	40	11-Apr-17	19-Apr-17	296																								
TGR Level 5 Schedule Rev 01 Control Accounts and Work Packages						<div><div></div> Remaining Level of Effort</div> <div><div></div> Actual Level of Effort</div> <div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical Remaining Work</div> <div><div></div> Milestone</div>																							

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Date Printed: 11-May-15 Project ID: 73277-L5-A		DNGS TG Unit 2 - Execution Phase Level 5 Schedule				Data Date: 14-Aug-15 Layout Name: TGR-L5 - CA and WP Level Activities 3of 10																							
Activity ID	Activity Name	OD	Start	Finish	Total Float																								
						2016				2017				2018				2019											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
7327750800	Pre MTCE Crane Inspection	126	20-Apr-17	08-May-17	163																								
7327750801	Pre MTCE Crane Inspection WP#1	126	20-Apr-17	08-May-17	163																								
7327751820	48100 NV12 Pre Req's	152	21-Apr-17	12-May-17	121																								
7327751822	48100 NV13 Pre Req's	30	24-Apr-17	27-Apr-17	238																								
7327751836	Blade Machining Pre Req'a	20	25-Apr-17	27-Apr-17	174																								
7327751814	48100 NV10 Pre Req's	40	26-Apr-17	02-May-17	121																								
7327751828	HP Dis-assembly Pre Req's	35	27-Apr-17	02-May-17	194																								
7327751838	INSP of X Under Piping Pre Req's	70	02-May-17	11-May-17	1629																								
7327751818	48100 NV11 Pre Req's	45	02-May-17	09-May-17	156																								
7327751414	CT & HV Bushing - Installation of Air Box, TG Phase 1 MTCE	350	03-May-17	22-Jun-17	1347																								
73277M0610	Phase 1 MTC Finish	0		24-May-17	58																								
73277M0810	Start MSCV MTCE	0	01-Jun-17		30																								
7327752400	Turbine Disassembly	716	01-Jun-17	13-Sep-17	254																								
7327752800	Bearing Maintenance	1680	01-Jun-17	05-Feb-18	0																								
7327753200	MSCV's	1349	01-Jun-17	12-Dec-17	331																								
7327753800	FRF MTCE	1339	01-Jun-17	11-Dec-17	1341																								
7327754600	Moisture Separator Reheater	560	01-Jun-17	21-Aug-17	1120																								
7327754800	Generator - Disassembly	685	01-Jun-17	08-Sep-17	885																								
7327755000	Generator - Inspection	1570	01-Jun-17	19-Jan-18	110																								
7327755800	Generator Auxiliaries - Excitation, HV Terminal & CT Refurb	1575	01-Jun-17	22-Jan-18	105																								
7327756800	Simulator Installation	600	01-Jun-17	25-Aug-17	1080																								
7327752402	Disassemble HP - Pre Rotating Inspection	195	01-Jun-17	28-Jun-17	775																								
7327752406	Disassemble LP1 - Pre Rotating Inspection	205	01-Jun-17	29-Jun-17	515																								
7327752410	Disassemble LP2 - Pre Rotating Inspection	205	01-Jun-17	29-Jun-17	555																								
7327752414	Disassemble LP3 - Pre Rotating Inspection	205	01-Jun-17	29-Jun-17	655																								
7327752804	Install Slave oil Pumps and Rotate orifices	40	01-Jun-17	06-Jun-17	399																								
7327752806	Bearing 2 Disassembly	571	01-Jun-17	23-Aug-17	1044																								
7327752808	Bearing 1 Disassembly	536	01-Jun-17	17-Aug-17	1144																								
7327752812	Bearing 3 Disassembly	546	01-Jun-17	18-Aug-17	1124																								
7327752814	Bearing 4 Disassembly	500	01-Jun-17	11-Aug-17	1170																								
7327752816	Bearing 5 Disassembly	470	01-Jun-17	08-Aug-17	1208																								
7327752818	Bearing 6 Disassembly	505	01-Jun-17	14-Aug-17	1165																								
7327753202	MSCV1 Disassemble and Inspect	425	01-Jun-17	01-Aug-17	1255																								
7327753204	MSCV2 Disassemble and Inspect	520	01-Jun-17	15-Aug-17	1160																								
7327753206	MSCV3 Disassemble and Inspect	575	01-Jun-17	23-Aug-17	1080																								
7327753208	MSCV4 Disassemble and Inspect	955	01-Jun-17	18-Oct-17	685																								
7327753804	FRF Pump P1 Refurbishment	959	01-Jun-17	18-Oct-17	721																								
7327754602	MSR1 Inspection	357	01-Jun-17	21-Jul-17	1323																								
7327754604	MSR2 Inspection	367	01-Jun-17	24-Jul-17	1313																								
7327754802	Remove Generator DE Components	115	01-Jun-17	16-Jun-17	469																								
7327754804	Remove Generator NDE Components	164	01-Jun-17	23-Jun-17	1406																								
		TGR Level 5 Schedule Rev 01 Control Accounts and Work Packages				<div><div></div> Remaining Level of Effort</div> <div><div></div> Actual Level of Effort</div> <div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical Remaining Work</div> <div><div></div> Milestone</div>																							

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Date Printed: 11-May-15 Project ID: 73277-L5-A		DNGS TG Unit 2 - Execution Phase Level 5 Schedule					Data Date: 14-Aug-15 Layout Name: TGR-L5 - CA and WP Level Activities 4of 10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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7327754806	Disassemble Slip Ring Components	20	01-Jun-17	02-Jun-17	484																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

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Date Printed: 11-May-15 Project ID: 73277-L5-A		DNGS TG Unit 2 - Execution Phase Level 5 Schedule					Data Date: 14-Aug-15 Layout Name: TGR-L5 - CA and WP Level Activities 5of 10																																															
Activity ID	Activity Name	OD	Start	Finish	Total Float	2016												2017												2018												2019												
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D													
7327755802	2-64220-DC IPB Inspection	115	04-Jul-17	19-Jul-17	1345													■ 2-64220-DC IPB Inspection																																				
7327755806	Excitation MTCE	195	04-Jul-17	31-Jul-17	1265													■ Excitation MTCE																																				
73277M0414	Resource Leveling Milestones # 1	0	04-Jul-17*		705													◆ Resource Leveling Milestones # 1																																				
73277M0860	Finish Lube Oil MTCE	0		05-Jul-17	1122													◆ Finish Lube Oil MTCE																																				
7327753808	FRF Pump P2 Refurbishment	709	06-Jul-17	18-Oct-17	729													■ FRF Pump P2 Refurbishment																																				
7327752820	Bearing 7 Disassembly	150	17-Jul-17	08-Aug-17	1215													■ Bearing 7 Disassembly																																				
7327754200	Extraction Steam MTCE	606	24-Jul-17	19-Oct-17	714													■ Extraction Steam MTCE																																				
7327754606	Reheat Related Inspection	200	24-Jul-17	21-Aug-17	1120													■ Reheat Related Inspection																																				
7327753828	2-4172 TCV 106 Overhaul	30	24-Jul-17	26-Jul-17	1245													■ 2-4172 TCV 106 Overhaul																																				
7327754220	2-48100-NV10 Overhaul	89	24-Jul-17	03-Aug-17	1231													■ 2-48100-NV10 Overhaul																																				
73277M0415	Resource Leveling Milestones #2	0	24-Jul-17*		66													◆ Resource Leveling Milestones #2																																				
7327753814	41720-HX2 CLEAN AND INSPECT	50	31-Jul-17	04-Aug-17	1220													■ 41720-HX2 CLEAN AND INSPECT																																				
73277M0420	Rotating Blade Finish	0		31-Jul-17	0													◆ Rotating Blade Finish																																				
73277M0425	Parallelism Check Finish	0		31-Jul-17	0													◆ Parallelism Check Finish																																				
7327753818	2-41720-FR3,FR4 Cleaning	60	31-Jul-17	09-Aug-17	1160													■ 2-41720-FR3,FR4 Cleaning																																				
7327753822	2-41270-FR5 Cleaning	20	31-Jul-17	02-Aug-17	1200													■ 2-41270-FR5 Cleaning																																				
7327754222	2-48100-NV11 Overhaul	71	03-Aug-17	15-Aug-17	1160													■ 2-48100-NV11 Overhaul																																				
7327752017	LP3 Rotating Blades Inspections On Stands	60	08-Aug-17	16-Aug-17	545													■ LP3 Rotating Blades Inspections On Stands																																				
7327752008	Clean and Inspect HP Component	415	10-Aug-17	11-Oct-17	104													■ Clean and Inspect HP Component																																				
73277M0430	HP Disassembly Finish	0		11-Aug-17	104													◆ HP Disassembly Finish																																				
7327753816	2-41790-ACC1 Replace Bladder	20	11-Aug-17	15-Aug-17	1164													■ 2-41790-ACC1 Replace Bladder																																				
7327754224	2-48100-NV12 Overhaul	87	16-Aug-17	28-Aug-17	1073													■ 2-48100-NV12 Overhaul																																				
7327752015	LP2 Rotating Blades Inspections On Stands	60	16-Aug-17	24-Aug-17	485													■ LP2 Rotating Blades Inspections On Stands																																				
73277M0790	Start Intercept Valve MTCE	0	17-Aug-17		314													◆ Start Intercept Valve MTCE																																				
7327753400	Intercept Valves	843	17-Aug-17	15-Dec-17	301													■ Intercept Valves																																				
7327753402	41163-MV1, Intercept Valves Overhaul	330	17-Aug-17	04-Oct-17	809													■ 41163-MV1, Intercept Valves Overhaul																																				
7327753404	41164-MV1, Intercept Valves Overhaul	378	17-Aug-17	12-Oct-17	726													■ 41164-MV1, Intercept Valves Overhaul																																				
73277M0120	Rotor Removal Complete	0		23-Aug-17	69													◆ Rotor Removal Complete																																				
73277M0130	Generator Inspection Start	0	24-Aug-17		69													◆ Generator Inspection Start																																				
7327753824	2-64173-SVXX Replacement	15	24-Aug-17	25-Aug-17	1040													■ 2-64173-SVXX Replacement																																				
7327755004	AC Bus Bar Inspection	30	24-Aug-17	28-Aug-17	1070													■ AC Bus Bar Inspection																																				
7327755602	H2 Cooling Valve MTCE	710	24-Aug-17	04-Dec-17	390													■ H2 Cooling Valve MTCE																																				
7327752013	LP1 Rotating Blades Inspections On Stands	60	24-Aug-17	01-Sep-17	425													■ LP1 Rotating Blades Inspections On Stands																																				
7327754226	2-48100-NV13 Overhaul	67	28-Aug-17	07-Sep-17	1006													■ 2-48100-NV13 Overhaul																																				
73277M0640	Rotor End Bell Inspection Start	0	29-Aug-17		99													◆ Rotor End Bell Inspection Start																																				
7327752802	Brg 5 insulation ring replacement / repair	100	29-Aug-17	13-Sep-17,	555													■ Brg 5 insulation ring replacement / repair																																				
7327752011	HP Rotating Inspections On Stands	200	01-Sep-17	02-Oct-17	225													■ HP Rotating Inspections On Stands																																				
73277M0470	LP1 Dis-assembly Finish	0		05-Sep-17	44													◆ LP1 Dis-assembly Finish																																				
7327752200	Turbine Reassembly	624	05-Sep-17	01-Dec-17	400													■ Turbine Reassembly																																				
7327753000	Turning Gear MTCE	574	05-Sep-17	24-Nov-17	450													■ Turning Gear MTCE																																				
7327752208	Re Assemble LP1	564	05-Sep-17	23-Nov-17	460													■ Re Assemble LP1																																				
		TGR Level 5 Schedule Rev 01 Control Accounts and Work Packages					<div><div></div> Remaining Level of Effort</div> <div><div></div> Actual Level of Effort</div> <div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical Remaining Work</div> <div><div></div> Milestone</div>																																															

2/17/17

Date Printed: 11-May-15 Project ID: 73277-L5-A		DNGS TG Unit 2 - Execution Phase Level 5 Schedule					Data Date: 14-Aug-15 Layout Name: TGR-L5 - CA and WP Level Activities 6of 10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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7327753004	41150-TN2 OIL PUMP MAINTENANCE	574	05-Sep-17	24-Nov-17	450																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

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Date Printed: 11-May-15 Project ID: 73277-L5-A		DNGS TG Unit 2 - Execution Phase Level 5 Schedule					Data Date: 14-Aug-15 Layout Name: TGR-L5 - CA and WP Level Activities 8of 10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Date Printed: 11-May-15 Project ID: 73277-L5-A		DNGS TG Unit 2 - Execution Phase Level 5 Schedule					Data Date: 14-Aug-15 Layout Name: TGR-L5 - CA and WP Level Activities 9of 10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Date Printed: 11-May-15
Project ID: 73277-L5-A

DNGS TG Unit 2 - Execution Phase Level 5 Schedule

Data Date: 14-Aug-15
Layout Name: TGR-L5 - CA and WP Level Activities
10 of 10

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TGR Level 5 Schedule Rev 01
Control Accounts and Work Packages

 Remaining Level of Effort  Remaining Work
 Actual Level of Effort  Critical Remaining Work
 Actual Work  Milestone

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Date Printed: 11-May-15 Project ID: 73512-L5-01UP-A		Lay up Unit 2 - Execution Phase Level 5 Schedule				Data Date: 11-Jan-16 Layout Name: Layup-L5 - CA and WP Level Activities 1 of 3																																																				
Activity ID	Activity Name	OD	Start	Finish	Total Float																																																					
						2016												2017												2018												2019																
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D					
Lay up Unit 2 - Execution Phase Level 5 Schedule						8565	02-Aug-16		23-Jan-20		0																																															
73512 - U2 - Turbine Generator and Auxiliaries Layup (Execution Only) April 15 2015						8565	02-Aug-16		23-Jan-20		0																																															
Project Milestones						8565	02-Aug-16		23-Jan-20		0																																															
73512M7020	Start Project Management Stage 2 - Layup Support	0	02-Aug-16*		8565	◆ Start Project Management Stage 2 - Layup Support																																																				
73512M1530	Pre Req Layup Start	0	26-Sep-16*		170	◆ Pre Req Layup Start																																																				
LUGS000110	Re Config. Gland Steam Layup for MTCE	0	26-Sep-16*		8185	◆ Re Config. Gland Steam Layup for MTCE																																																				
73512M5000	Layup Project Start	0	26-Sep-16*		170	◆ Layup Project Start																																																				
73512M7010	Start Project Management Stage 1 - Support Refurbishment Milestones	0	26-Sep-16*		8185	◆ Start Project Management Stage 1 - Support Refurbishment Milestones																																																				
73512M1540	Pre Req Layup Finish	0		28-Sep-16	170	◆ Pre Req Layup Finish																																																				
73512M1000	Start Layup Installation	0	24-Oct-16*		0	◆ Start Layup Installation																																																				
73512M2200	Dryer Skids Available	0	24-Oct-16*		66	◆ Dryer Skids Available																																																				
73512M1520	Finish Layup Installation	0		17-Nov-16*	0	◆ Finish Layup Installation																																																				
73512M7030	Start Project Management Stage 3 - Ramp Up for TGR Window	0	02-Jan-17*		7555	◆ Start Project Management Stage 3 - Ramp Up for TGR Window																																																				
LUSCWP0110	Re Config. SCW Pross Side Layup for MTCE	0	09-Jan-17*		2	◆ Re Config. SCW Pross Side Layup for MTCE																																																				
LUSCWP0115	Re Config. SCW Pross Side Layup Ready for MTCE	0		19-Jan-17*	0	◆ Re Config. SCW Pross Side Layup Ready for MTCE																																																				
73512M1550	Start Re Config Pre - Mainteance	0	01-May-17*		0	◆ Start Re Config Pre - Mainteance																																																				
LUEXC00110	Re Config. Excitation Layup for MTCE	0		02-May-17	6723	◆ Re Config. Excitation Layup for MTCE																																																				
LUSOC00110	Re Config. Seal Oil Coolers Layup for MTCE	0		02-May-17	6722	◆ Re Config. Seal Oil Coolers Layup for MTCE																																																				
LUSR000110	Re Config. Slip Ring Layup for MTCE	0		03-May-17	6711	◆ Re Config. Slip Ring Layup for MTCE																																																				
LUGEN00110	Re Config. Generator Layup for MTCE	0		03-May-17	6708	◆ Re Config. Generator Layup for MTCE																																																				
73512M1560	Finish Re Config Pre - Mainteance	0		04-May-17*	0	◆ Finish Re Config Pre - Mainteance																																																				
LUMSRHP110	Re Config. MSR HP Layup for MTCE	0		04-May-17*	191	◆ Re Config. MSR HP Layup for MTCE																																																				
73512M7040	Start Project Management Stage 4 - TGR Window	0	01-Jun-17*		6515	◆ Start Project Management Stage 4 - TGR Window																																																				
LUSCWP0205	Reconfig SCW Process for Station Hose Replacement	0	01-Sep-17*		5860	◆ Reconfig SCW Process for Station Hose Replacement																																																				
LUSCWP0210	Re Config. SCW Pross Side Layup for SCW Refill	0	15-Sep-17*		107	◆ Re Config. SCW Pross Side Layup for SCW Refill																																																				
73512M0620	Start Refill of SCW	0	02-Oct-17*		1	◆ Start Refill of SCW																																																				
LUSCWP0215	Re Config. SCW Pross Side during TGR MTCE Window Complete	0		13-Oct-17*	0	◆ Re Config. SCW Pross Side during TGR MTCE Window Complete																																																				
LUSOC00205	Reconfig Seal Oil for Gen Air hold Test	0	02-Jan-18*		2	◆ Reconfig Seal Oil for Gen Air hold Test																																																				
LUSOC00120	Re Config. Seal Oil Coolers for Seal Oil Operation	0		02-Jan-18*	0	◆ Re Config. Seal Oil Coolers for Seal Oil Operation																																																				
73512M1570	Start Re Config Post - Mainteance	0	01-Mar-18*		2	◆ Start Re Config Post - Mainteance																																																				
LUGEN00210	Re Config. Generator Layup for Post MTCE	0	01-Mar-18		2	◆ Re Config. Generator Layup for Post MTCE																																																				
73512M7050	Start Project Management Stage 5 - Closeout and Demob	0	01-Mar-18*		4675	◆ Start Project Management Stage 5 - Closeout and Demob																																																				
LUEXC00210	Re Config. Excitation Layup for Post MTCE	0	01-Mar-18		2	◆ Re Config. Excitation Layup for Post MTCE																																																				
LUSOC00210	Re Config. Seal Oil Coolers Layup for Post MTCE	0	02-Mar-18*		2	◆ Re Config. Seal Oil Coolers Layup for Post MTCE																																																				
LUSOC00220	Re Config. Seal Oil Coolers for Post Seal Oil Operation	0	02-Mar-18		2	◆ Re Config. Seal Oil Coolers for Post Seal Oil Operation																																																				
LUSR000210	Re Config. Slip Ring Layup for Post MTCE	0	06-Mar-18		2	◆ Re Config. Slip Ring Layup for Post MTCE																																																				
LUMSRHP210	Re Config. MSR HP Layup for Post MTCE	0	07-Mar-18		2	◆ Re Config. MSR HP Layup for Post MTCE																																																				
LUGS000210	Re Config. Gland Steam Layup for Post MTCE	0	07-Mar-18		2	◆ Re Config. Gland Steam Layup for Post MTCE																																																				
73512M1580	Finish Re Config Post - Mainteance	0		22-Mar-18*	0	◆ Finish Re Config Post - Mainteance																																																				
73512M7060	Finish Project Management StageWindow 5 - Closeout and Demob	0		03-Jul-18*	3835	◆ Finish Project Management StageWindow 5																																																				
73512M7070	Start Project Management Stage 6 - Dynamic Commissioning	0	01-May-19*		1795	◆ Start Project Mana																																																				
Layup Level 5 Schedule Rev 01 Control Accounts and Work Packages						Remaining Level of Effort Actual Level of Effort Actual Work Remaining Work Critical Remaining Work Milestone																																																				

Date Printed: 11-May-15 Project ID: 73512-L5-01UP-A		Lay up Unit 2 - Execution Phase Level 5 Schedule				Data Date: 11-Jan-16 Layout Name: Layup-L5 - CA and WP Level Activities 2 of 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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73512M1590	Start Layup removal	0	15-Aug-19*		0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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Date Printed: 11-May-15 Project ID: 73512-L5-01UP-A		Lay up Unit 2 - Execution Phase Level 5 Schedule					Data Date: 11-Jan-16 Layout Name: Layup-L5 - CA and WP Level Activities 3of 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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7351250209	Re Config Pre Mtce Slip ring Layup	24	01-May-17	03-May-17	12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

Date Printed: 22-Jun-15 Project ID: 73271-1		DNGS TG Unit 1 - Execution Phase Level 4 Schedule - Updated on Jun 19, 2015				Data Date: 01-Jul-20 Layout Name: TGR-L5 - CA Level and WP1 2 of 14																																															
Activity ID	Activity Name	OD	Start	Finish	Total Float																																																
73271M5190	USI 44100 - CONDENSER & AUX	0h		04-Feb-22	798h																																																
73271M5030	USI 41100 - TURBINE MAIN STEAM	0h		16-Feb-22	718h																																																
73271M5000	Unit 1 TGR JV CCDs Complete	0h		16-Feb-22	718h																																																
Project Management		9181h	02-Jul-20	19-Mar-24	0h																																																
Project Management Establishment		9181h	02-Jul-20	19-Mar-24	0h																																																
7327110100	Project Management Establishment	9181h	02-Jul-20	19-Mar-24	0h																																																
7327110104	Project Management	9181h	02-Jul-20	19-Mar-24	0h																																																
7327110101	Hire on Plan	354h	02-Jul-20	21-Aug-20	8827h																																																
7327110102	BTU Marking Meeting	192h	02-Jul-20	29-Jul-20	8989h																																																
Project Controls		9181h	02-Jul-20	19-Mar-24	0h																																																
7327110201	Project Controls	9181h	02-Jul-20	19-Mar-24	0h																																																
7327110200	Project Controls	9181h	02-Jul-20	19-Mar-24	0h																																																
Quality Management		9181h	02-Jul-20	19-Mar-24	0h																																																
7327110301	Quality Management	9181h	02-Jul-20	19-Mar-24	0h																																																
7327110300	Quality Management	9181h	02-Jul-20	19-Mar-24	0h																																																
Construction Management		9181h	02-Jul-20	19-Mar-24	0h																																																
7327110501	Construction Managemet	9181h	02-Jul-20	19-Mar-24	0h																																																
7327110500	Construction Management	9181h	02-Jul-20	19-Mar-24	0h																																																
Commissioning		9181h	02-Jul-20	19-Mar-24	0h																																																
7327110401	Commissioning	9181h	02-Jul-20	19-Mar-24	0h																																																
470367113	Commissioning	9181h	02-Jul-20	19-Mar-24	0h																																																
Support Trades		9181h	02-Jul-20	19-Mar-24	0h																																																
7327110600	Support Trades	9181h	02-Jul-20	19-Mar-24	0h																																																
Procurement		473h	02-Jul-20	09-Sep-20	1249h																																																
Manufacturing		473h	02-Jul-20	09-Sep-20	1249h																																																
7327140700	Non Long Lead Pre Req's	473h	02-Jul-20	09-Sep-20	1249h																																																
7327140701	Long Lead Pre Req's	473h	02-Jul-20	09-Sep-20	1249h																																																
Construction		4272h	02-Jul-20	24-Mar-22	4910h																																																
Breaker Open Pre Req's		89h	04-Jan-21	14-Jan-21	810h																																																
7327150400	Breaker Open Pre Req's	89h	04-Jan-21	14-Jan-21	810h																																																
7327150402	General, Breaker Open Pre Req's	55h	04-Jan-21	11-Jan-21	402h																																																
7327150410	Generator Diassembly, Breaker Open Pre Req's	50h	04-Jan-21	11-Jan-21	849h																																																
7327150408	Trombiks, Breaker Open Pre Req's	50h	04-Jan-21	11-Jan-21	704h																																																
7327150404	Bearings, Breaker Open Pre Req's	29h	11-Jan-21	14-Jan-21	402h																																																
7327150406	MSR,, Breaker Open Pre Req's	5h	14-Jan-21	14-Jan-21	402h																																																
Pre MTCE Crane Inspection		136h	15-Mar-21	01-Apr-21	518h																																																
7327150800	Pre MTCE Crane Inspection	136h	15-Mar-21	01-Apr-21	518h																																																
7327150801	Pre MTCE Crane Inspection, Pre MTCE Crane Inspection	136h	15-Mar-21	01-Apr-21	518h																																																
Post MTCE Crane Inspection		115h	16-Feb-22	04-Mar-22	603h																																																
7327151000	Post MTCE Crane Inspection	115h	16-Feb-22	04-Mar-22	603h																																																
7327151001	Post MTCE Crane Inspection, Post MTCE Crane Inspection	115h	16-Feb-22	04-Mar-22	603h																																																

Joint Venture

TGR Level 4 Schedule Rev 00
Control Accounts and Work Packages

Remaining Level of Effort

Actual Level of Effort

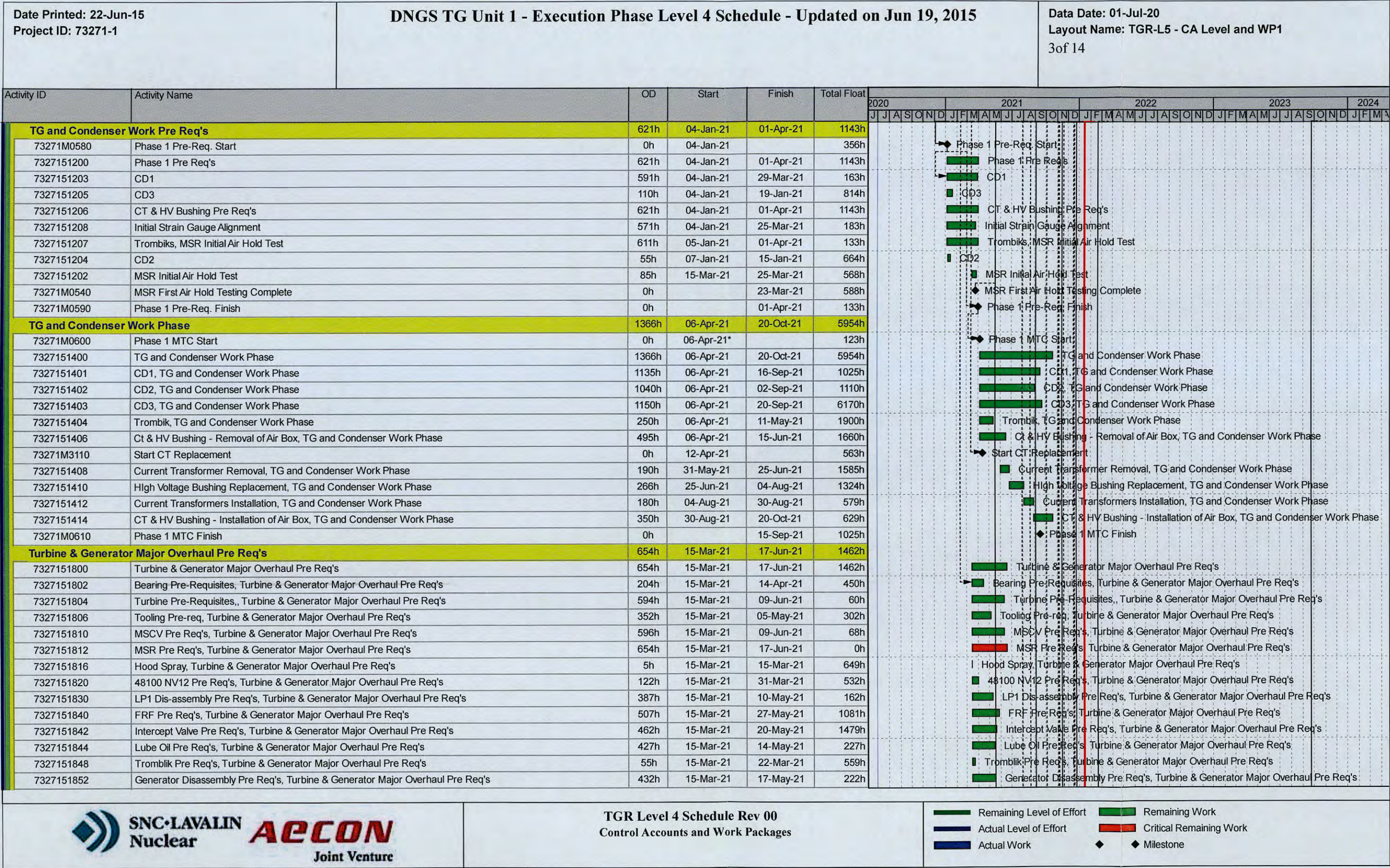
Actual Work

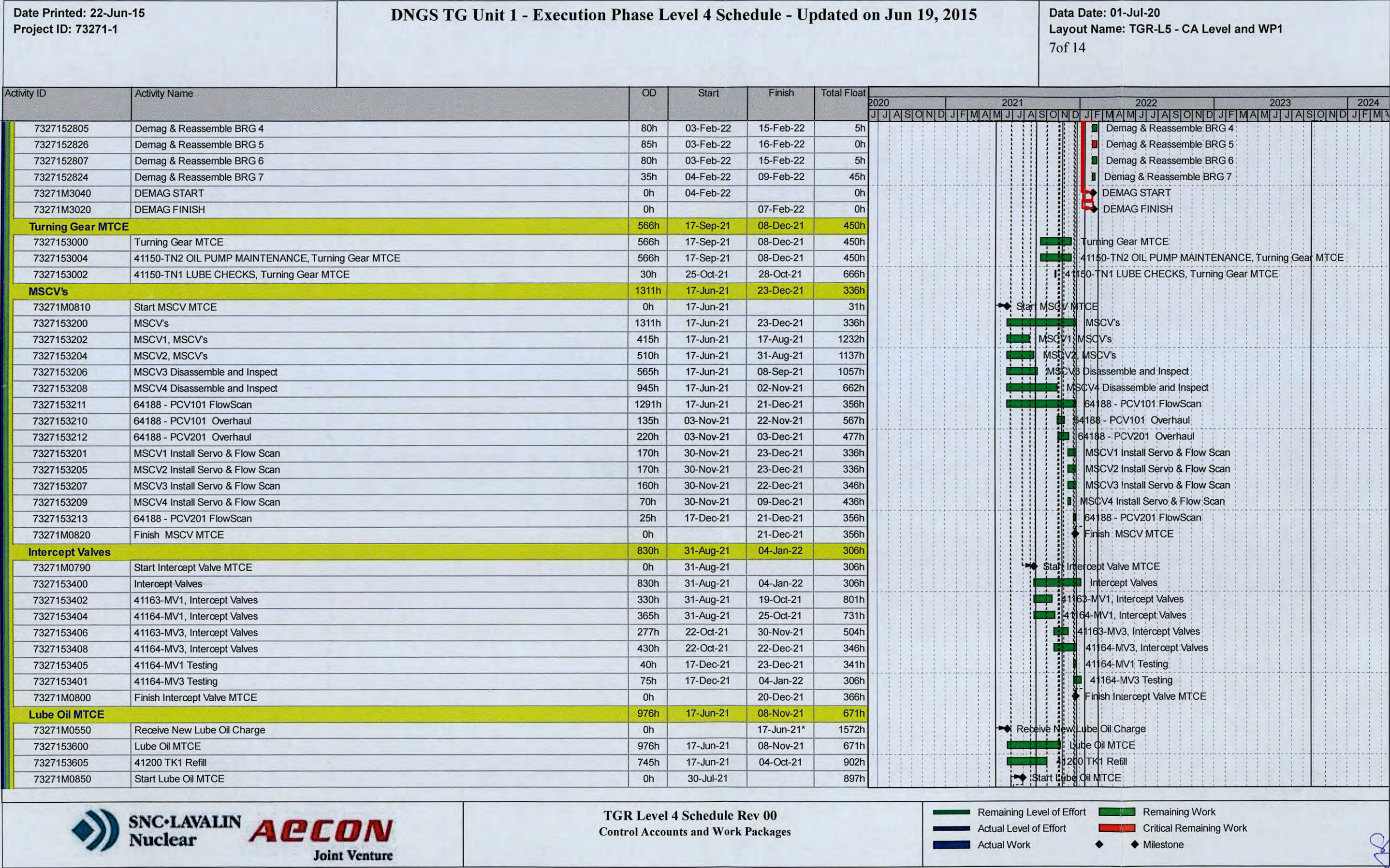
Remaining Work

Critical Remaining Work

Milestone

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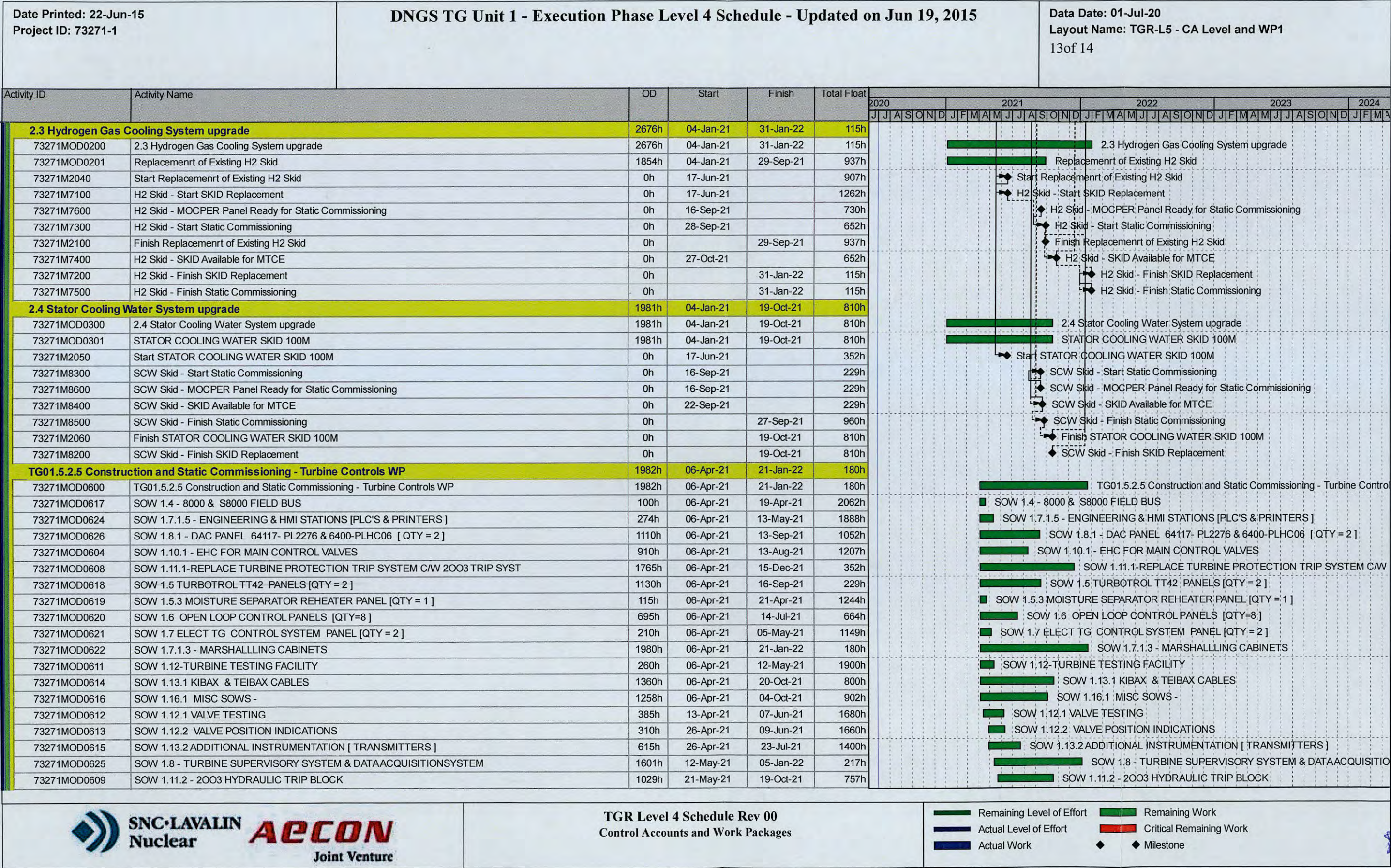
Data Date: 01-Jul-20
Layout Name: TGR-L5 - CA Level and WP1
11 of 14

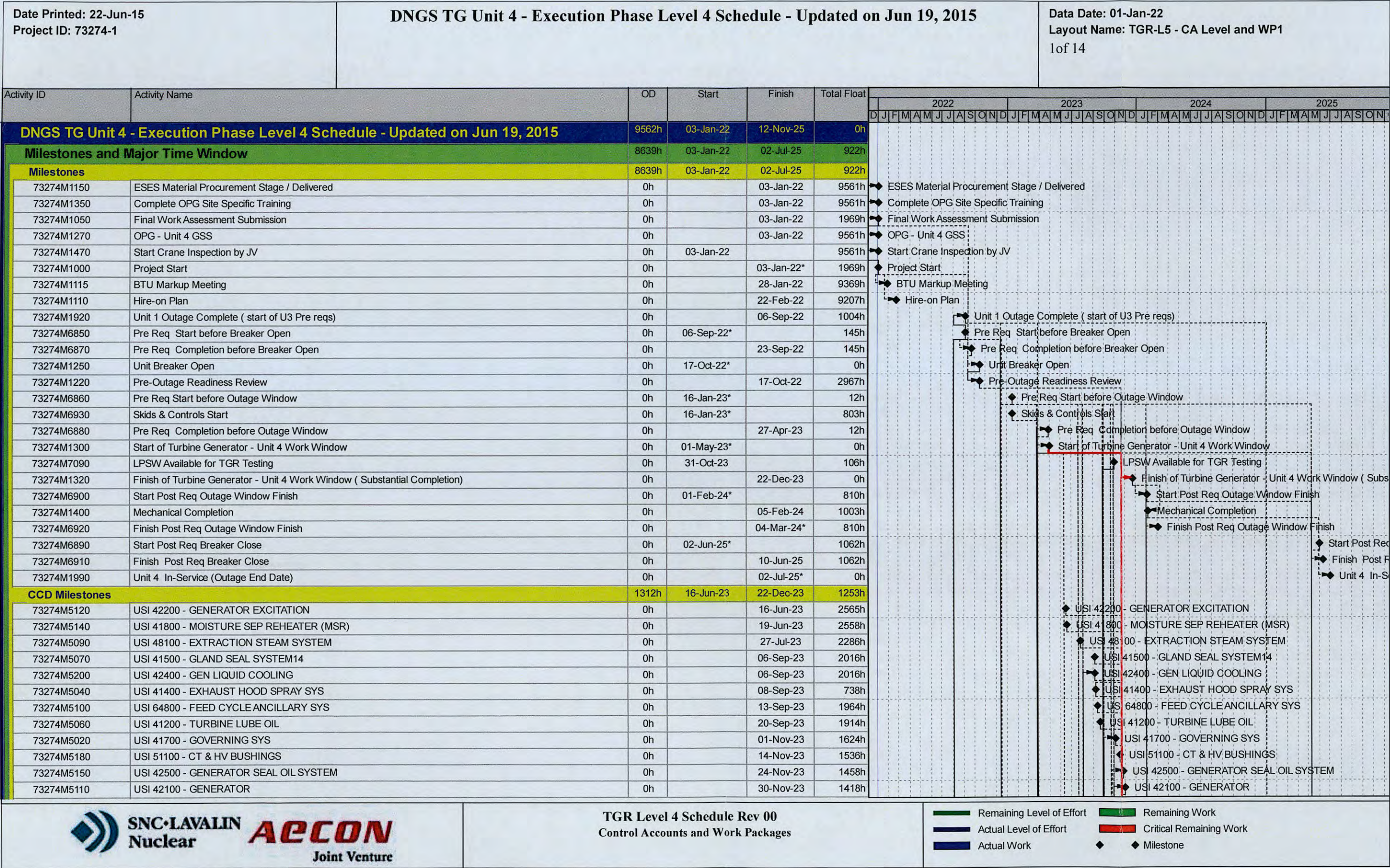
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 Remaining Level of Effort  Remaining Work
 Actual Level of Effort  Critical Remaining Work
 Actual Work Milestone

Date Printed: 22-Jun-15 Project ID: 73271-1		DN GS TG Unit 1 - Execution Phase Level 4 Schedule - Updated on Jun 19, 2015				Data Date: 01-Jul-20 Layout Name: TGR-L5 - CA Level and WP1 12of 14																																															
Activity ID	Activity Name	OD	Start	Finish	Total Float	20202021202220232024																																															
73271L50300	Re-Configure Post - maintenance	1085h	01-Oct-21	11-Mar-22	555h	Re-Configure Post - maintenance																																															
73271L50304	Re Config Post Mtce SCW Process Side Layup	1085h	01-Oct-21	11-Mar-22	555h	Re Config Post Mtce SCW Process Side Layup																																															
73271LM0620	Start Refill of SCW	0h	01-Oct-21*		1560h	Start Refill of SCW																																															
73271LM1570	Start Re Config Post - Maintenance	0h	01-Mar-22*		555h	Start Re Config Post - Maintenance																																															
73271L50301	Re Config Post Mtce LP Layup	45h	01-Mar-22	07-Mar-22	595h	Re Config Post Mtce LP Layup																																															
73271L50302	Re Config Post Mtce HP Layup	45h	01-Mar-22	07-Mar-22	595h	Re Config Post Mtce HP Layup																																															
73271L50303	Re Config Post Mtce HP Layup	33h	01-Mar-22	04-Mar-22	607h	Re Config Post Mtce HP Layup																																															
73271L50306	Re Config Post Mtce Seal Oil LPSW Side Layup	34h	01-Mar-22	04-Mar-22	606h	Re Config Post Mtce Seal Oil LPSW Side Layup																																															
73271L50307	Re Config Post Mtce Excitation Transformer Layup	19h	01-Mar-22	02-Mar-22	621h	Re Config Post Mtce Excitation Transformer Layup																																															
73271L50309	Re Config Post Mtce Slip ring Layup	24h	01-Mar-22	03-Mar-22	616h	Re Config Post Mtce Slip ring Layup																																															
73271LM1580	Finish Re Config Post - Maintenance	0h		11-Mar-22	555h	Finish Re Config Post - Maintenance																																															
73271LM1590	Start Layup removal	0h	04-Jul-23*		1647h	Start Layup removal																																															
73271L50400	Remove Layup	105h	04-Jul-23	18-Jul-23	1647h	Remove Layup																																															
73271L50401	Remove LP Layup	105h	04-Jul-23	18-Jul-23	1647h	Remove LP Layup																																															
73271L50402	Remove HP Layup	35h	04-Jul-23	07-Jul-23	1717h	Remove HP Layup																																															
73271L50403	Remove Generator Body Layup	33h	04-Jul-23	07-Jul-23	1719h	Remove Generator Body Layup																																															
73271L50404	Remove SCW Process Side layup	10h	04-Jul-23	04-Jul-23	1742h	Remove SCW Process Side layup																																															
73271L50405	Remove SCW LPSW Side Layup	33h	04-Jul-23	07-Jul-23	1719h	Remove SCW LPSW Side Layup																																															
73271L50406	Remove Seal Oil LPSW Side Layup	61h	04-Jul-23	12-Jul-23	1691h	Remove Seal Oil LPSW Side Layup																																															
73271L50407	Remove Excitation Transformer Layup	26h	04-Jul-23	06-Jul-23	1726h	Remove Excitation Transformer Layup																																															
73271L50408	Remove Instrument Terminal Box Layup	23h	04-Jul-23	06-Jul-23	1729h	Remove Instrument Terminal Box Layup																																															
73271L50409	Remove Slip ring Layup	38h	04-Jul-23	07-Jul-23	1714h	Remove Slip ring Layup																																															
73271LM1600	Finish Layup removal	0h		18-Jul-23	1647h	Finish Layup removal																																															
Modifications Schedule		2676h	04-Jan-21	31-Jan-22	115h																																																
2.5 Seal Oil System upgrade		2497h	04-Jan-21	05-Jan-22	294h																																																
73271MOD0100	2.5 Seal Oil System upgrade	2497h	04-Jan-21	05-Jan-22	294h	2.5 Seal Oil System upgrade																																															
73271MOD0101	Seal Oil Skid 1 @ 100 Elev.	2497h	04-Jan-21	05-Jan-22	294h	Seal Oil Skid 1 @ 100 Elev.																																															
73271MOD0102	Seal Oil Skid 2 @ 107 Elev.	2472h	05-Jan-21	04-Jan-22	304h	Seal Oil Skid 2 @ 107 Elev.																																															
73271MOD0103	Seal Oil Skid @ 115 Elev.	2452h	07-Jan-21	04-Jan-22	304h	Seal Oil Skid @ 115 Elev.																																															
73271M2070	Start Seal Oil Skid @ 100 Elev.	0h	17-Jun-21		507h	Start Seal Oil Skid @ 100 Elev.																																															
73271M2080	Start Seal Oil Skid @ 107 Elev.	0h	17-Jun-21		842h	Start Seal Oil Skid @ 107 Elev.																																															
73271M2090	Start Seal Oil Skid @ 1115 Elev.	0h	17-Jun-21		947h	Start Seal Oil Skid @ 1115 Elev.																																															
73271M6100	Seal Oil Skid - Start SKID Replacement	0h	17-Jun-21		507h	Seal Oil Skid - Start SKID Replacement																																															
73271M6600	Seal Oil Skid - MOCPER Panel Ready for Static Commissioning	0h	16-Sep-21		505h	Seal Oil Skid - MOCPER Panel Ready for Static Commissioning																																															
73271M6300	Seal Oil Skid - Start Static Commissioning	0h	07-Oct-21		352h	Seal Oil Skid - Start Static Commissioning																																															
73271M6400	Seal Oil Skid - SKID Available for MTCE	0h	05-Nov-21		352h	Seal Oil Skid - SKID Available for MTCE																																															
73271M2110	Finish Seal Oil Skid @ 107 Elev.	0h		04-Jan-22	304h	Finish Seal Oil Skid @ 107 Elev.																																															
73271M2120	Finish Seal Oil Skid @ 115 Elev.	0h		04-Jan-22	304h	Finish Seal Oil Skid @ 115 Elev.																																															
73271M6200	Seal Oil Skid - Finish SKID Replacement	0h		04-Jan-22	304h	Seal Oil Skid - Finish SKID Replacement																																															
73271M6500	Seal Oil Skid - Finish Static Commissioning	0h		04-Jan-22	304h	Seal Oil Skid - Finish Static Commissioning																																															
73271M2130	Finish Seal Oil Skid @ 100 Elev.	0h		05-Jan-22	294h	Finish Seal Oil Skid @ 100 Elev.																																															
		TGR Level 4 Schedule Rev 00 Control Accounts and Work Packages																																																			

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Joint Venture

TGR Level 4 Schedule Rev 00
Control Accounts and Work Packages

Remaining Level of Effort

Actual Level of Effort


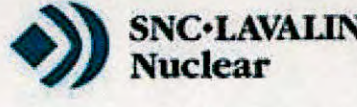
Actual Work

Remaining Work

Critical Remaining Work

Milestone

Date Printed: 22-Jun-15 Project ID: 73274-1		DNCS TG Unit 4 - Execution Phase Level 4 Schedule - Updated on Jun 19, 2015				Data Date: 01-Jan-22 Layout Name: TGR-L5 - CA Level and WP1 2of 14											
Activity ID	Activity Name	OD	Start	Finish	Total Float												
						2022			2023			2024			2025		
						D	J	F	M	A	M	J	J	A	S	O	N
73274M5160	USI 42300 - GEN HYDROGEN COOLING239	0h		30-Nov-23	1413h												
73274M5190	USI 44100 - CONDENSER & AUX	0h		12-Dec-23	1333h												
73274M5030	USI 41100 - TURBINE MAIN STEAM	0h		22-Dec-23	1253h												
73274M5000	Unit 4 TGR JV CCDs Complete	0h		22-Dec-23	1253h												
Project Management		9561h	03-Jan-22	12-Nov-25	0h												
Project Management Establishment		9561h	03-Jan-22	12-Nov-25	0h												
7327410100	Project Management Establishment	9561h	03-Jan-22	12-Nov-25	0h												
7327410104	Project Management	9561h	03-Jan-22	12-Nov-25	0h												
7327410101	Hire on Plan	354h	03-Jan-22	22-Feb-22	9207h												
7327410102	BTU Marking Meeting	192h	03-Jan-22	28-Jan-22	9369h												
Project Controls		9561h	03-Jan-22	12-Nov-25	0h												
7327410201	Project Controls	9561h	03-Jan-22	12-Nov-25	0h												
7327410200	Project Controls	9561h	03-Jan-22	12-Nov-25	0h												
Quality Management		9561h	03-Jan-22	12-Nov-25	0h												
7327410301	Quality Management	9561h	03-Jan-22	12-Nov-25	0h												
7327410300	Quality Management	9561h	03-Jan-22	12-Nov-25	0h												
Construction Management		9561h	03-Jan-22	12-Nov-25	0h												
7327410501	Construction Managemet	9561h	03-Jan-22	12-Nov-25	0h												
7327410500	Construction Management	9561h	03-Jan-22	12-Nov-25	0h												
Commissioning		9561h	03-Jan-22	12-Nov-25	0h												
470367103	Commissioning	9561h	03-Jan-22	12-Nov-25	0h												
470367113	Commissioning	9561h	03-Jan-22	12-Nov-25	0h												
Support Trades		9561h	03-Jan-22	12-Nov-25	0h												
7327410600	Support Trades	9561h	03-Jan-22	12-Nov-25	0h												
Procurement		473h	03-Jan-22	10-Mar-22	2110h												
Manufacturing		473h	03-Jan-22	10-Mar-22	2110h												
7327440700	Non Long Lead Pre Req's	473h	03-Jan-22	10-Mar-22	2110h												
7327440701	Long Lead Pre Req's	473h	03-Jan-22	10-Mar-22	2110h												
Construction		5380h	03-Jan-22	04-Mar-24	810h												
Breaker Open Pre Req's		89h	06-Sep-22	16-Sep-22	1266h												
7327450400	Breaker Open Pre Req's	89h	06-Sep-22	16-Sep-22	1266h												
7327450402	General, Breaker Open Pre Req's	55h	06-Sep-22	13-Sep-22	191h												
7327450410	Generator Disassembly, Breaker Open Pre Req's	50h	06-Sep-22	12-Sep-22	1305h												
7327450408	Trombiks, Breaker Open Pre Req's	50h	06-Sep-22	12-Sep-22	400h												
7327450404	Bearings, Breaker Open Pre Req's	29h	13-Sep-22	16-Sep-22	191h												
7327450406	MSR,, Breaker Open Pre Req's	5h	16-Sep-22	16-Sep-22	191h												
Pre MTCE Crane Inspection		136h	16-Jan-23	02-Feb-23	584h												
7327450800	Pre MTCE Crane Inspection	136h	16-Jan-23	02-Feb-23	584h												
7327450801	Pre MTCE Crane Inspection, Pre MTCE Crane Inspection	136h	16-Jan-23	02-Feb-23	584h												
Post MTCE Crane Inspection		115h	01-Feb-24	17-Feb-24	910h												
7327451000	Post MTCE Crane Inspection	115h	01-Feb-24	17-Feb-24	910h												



Joint Venture

TGR Level 4 Schedule Rev 00
Control Accounts and Work Packages

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

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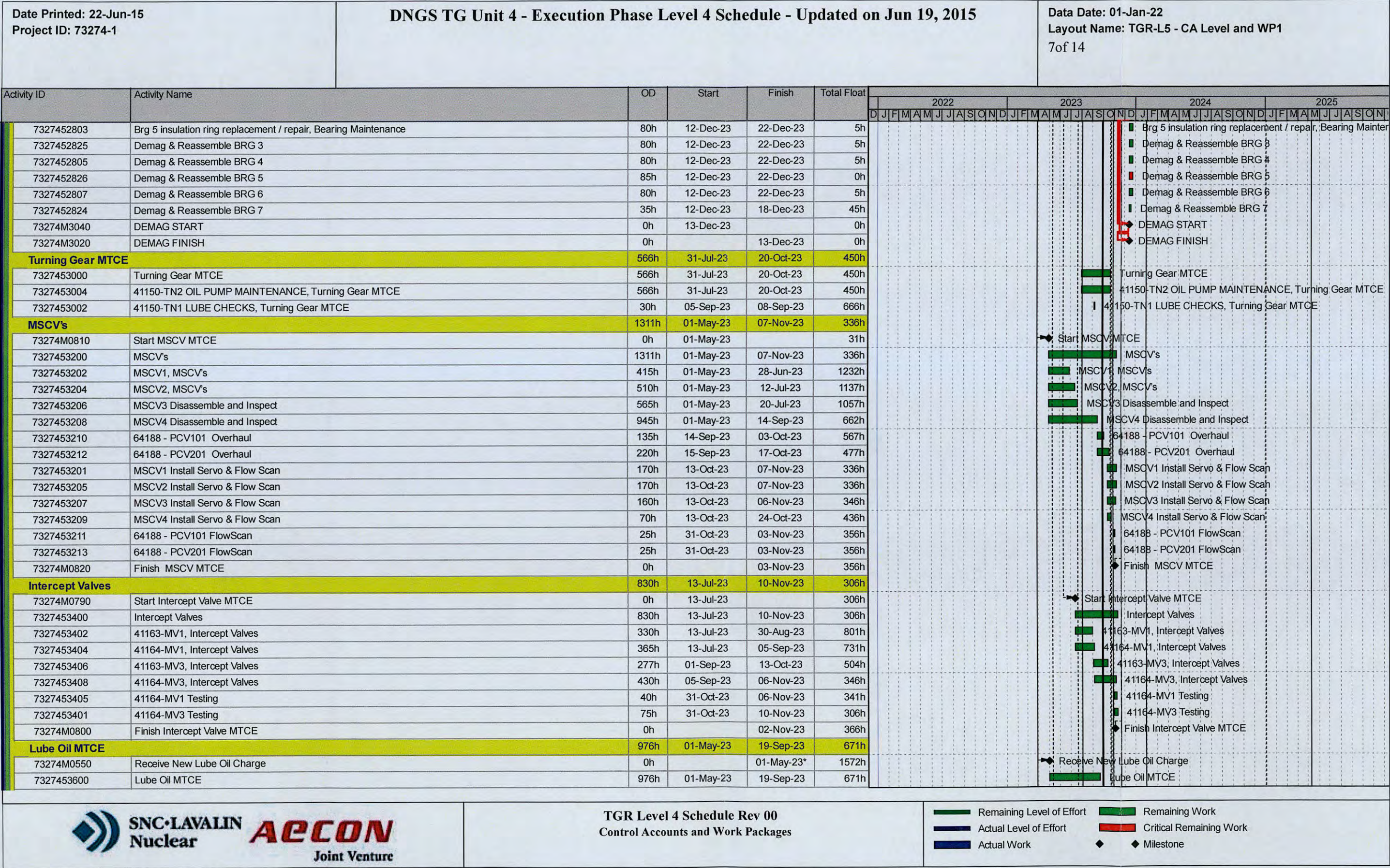
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Date Printed: 22-Jun-15 Project ID: 73274-1		DNGS TG Unit 4 - Execution Phase Level 4 Schedule - Updated on Jun 19, 2015				Data Date: 01-Jan-22 Layout Name: TGR-L5 - CA Level and WP1 4of 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Activity ID	Activity Name	OD	Start	Finish	Total Float	2022												2023												2024												2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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7327451858	Hydregon Cooling Pre Req's, Turbine & Generator Major Overhaul Pre Req's	589h	16-Jan-23	11-Apr-23	131h																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</



TGR Level 4 Schedule Rev 00
 Control Accounts and Work Packages

Remaining Level of Effort Remaining Work
 Actual Level of Effort Critical Remaining Work
 Actual Work Milestone



Date Printed: 22-Jun-15 Project ID: 73274-1		DNGS TG Unit 4 - Execution Phase Level 4 Schedule - Updated on Jun 19, 2015				Data Date: 01-Jan-22 Layout Name: TGR-L5 - CA Level and WP1 9of 14																							
Activity ID	Activity Name	OD	Start	Finish	Total Float																								
						2022			2023			2024			2025														
						D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
7327454202	REPLACE 64810-SV112, Extraction Steam MTCE	15h	05-Sep-23	07-Sep-23	756h																								
7327454204	REPLACE 64810-SV107, Extraction Steam MTCE	15h	05-Sep-23	07-Sep-23	736h																								
7327454206	REPLACE 64810-SV106, Extraction Steam MTCE	15h	06-Sep-23	07-Sep-23	751h																								
7327454208	REPLACE 64810-SV108, Extraction Steam MTCE	20h	07-Sep-23	11-Sep-23	726h																								
7327454210	REPLACE 64810-SV105, Extraction Steam MTCE	15h	07-Sep-23	11-Sep-23	736h																								
7327454212	REPLACE 64810-SV109, Extraction Steam MTCE	15h	08-Sep-23	12-Sep-23	721h																								
7327454216	REPLACE 64810-SV102, Extraction Steam MTCE	15h	11-Sep-23	13-Sep-23	716h																								
7327454218	REPLACE 64810-SV110, Extraction Steam MTCE	15h	12-Sep-23	14-Sep-23	706h																								
Moisture Separator Reheater		535h	01-May-23	17-Jul-23	2365h																								
7327454600	Moisture Separator Reheater	535h	01-May-23	17-Jul-23	2365h																								
7327454602	MSR1, Moisture Separator Reheater	357h	01-May-23	20-Jun-23	2543h																								
7327454604	MSR2, Moisture Separator Reheater	357h	01-May-23	20-Jun-23	1290h																								
7327454606	Reheat Related, Moisture Separator Reheater	145h	26-Jun-23	17-Jul-23	1112h																								
Generator - Disassembly		2174h	21-Oct-22	07-Sep-23	653h																								
7327454800	Generator - Disassembly	2174h	21-Oct-22	07-Sep-23	653h																								
7327454801	Remove Rotor, Generator - Disassembly	2174h	21-Oct-22	07-Sep-23	102h																								
7327454802	Remove DE Components, Generator - Disassembly	115h	01-May-23	16-May-23	132h																								
7327454804	Remove NDE Components, Generator - Disassembly	150h	01-May-23	19-May-23	1397h																								
7327454806	Disassemble Slip Ring Components, Generator - Disassembly	20h	01-May-23	02-May-23	147h																								
73274M0120	Rotor Removal Complete	0h		06-Jun-23	52h																								
73274M3030	Generator Inspection Start	0h	07-Jun-23		391h																								
Generator - Inspection		2217h	16-Jan-23	01-Dec-23	150h																								
7327455000	Generator - Inspection	2217h	16-Jan-23	01-Dec-23	150h																								
7327455008	Hydrogen Cooling Inspection, Generator - Inspection	2217h	16-Jan-23	01-Dec-23	150h																								
7327455001	Stator Replacement Pre Req.	70h	16-Jan-23	24-Jan-23	650h																								
7327455010	Stator Replacement	1273h	19-Apr-23	20-Oct-23	452h																								
7327455002	Gen Rotor Inspection, Generator - Inspection	1272h	01-May-23	01-Nov-23	375h																								
7327455004	Gen Inspection, Generator - Inspection	30h	07-Jun-23	09-Jun-23	1357h																								
7327455006	Stator Inspection, Generator - Inspection	719h	07-Jun-23	19-Sep-23	668h																								
73274M4010	Start Stator Removal	0h	07-Jun-23		52h																								
73274M0640	Rotor End Bell Inspection Start	0h	12-Jun-23		366h																								
73274M4020	Finish Stator Installed	0h		19-Jul-23	52h																								
7327455003	Stator Replacement Post Req.	60h	20-Jul-23	27-Jul-23	1027h																								
73274M0650	Rotor End Bell Inspection Finish	0h		31-Jul-23	366h																								
73274M0655	Rotor Inspection Finish	0h		01-Aug-23	366h																								

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Date Printed: 22-Jun-15 Project ID: 73274-1		DNGS TG Unit 4 - Execution Phase Level 4 Schedule - Updated on Jun 19, 2015				Data Date: 01-Jan-22 Layout Name: TGR-L5 - CA Level and WP1 10of 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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7327455100	Connect Current Transformers	260h	16-Oct-23	21-Nov-23	118h																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</

Date Printed: 22-Jun-15 Project ID: 73274-1		DNGS TG Unit 4 - Execution Phase Level 4 Schedule - Updated on Jun 19, 2015				Data Date: 01-Jan-22 Layout Name: TGR-L5 - CA Level and WP1 13of 14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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ATTACHMENT C

Schedule 2.7(a)(3) - Submittal Schedule for the Execution Phase Work

Item	Milestone	Completion Date	Requirements to Satisfy Milestone Completion
1st Unit			
1	Commissioning Work Plans		All Commissioning Work Plans Submitted to OPG
2	Generator Air Hold Test Report Submitted	28-Feb-18	Generator Air Hold Test Submitted to OPG
3	Modification AFS Declaration	31-Aug-19	All Modification AFS Declarations Submitted
4	History Docket Submittal Complete	31-Dec-19	History Docket Submitted to OPG
5	Unit Closeout Documents Submitted	19-Mar-20	Unit Closeout Documents Submitted to OPG
2nd Unit			
1	Detailed Execution Phase Target Schedule Submitted	TBD	Level 5 Execution Schedule Submitted to OPG
2	Mods Final Design Review & COMS Submittal	TBD	COMS review meeting completed
3	Layup Maintenance CWP submitted	TBD	All Layup Maintenance CWP submitted to OPG
4	Turbine Maintenance CWP submitted	TBD	All Turbine Maintenance CWP submitted to OPG
5	Generator Maintenance CWP submitted	TBD	All Generator Maintenance CWP submitted to OPG
6	Condenser Maintenance CWP submitted	TBD	All Condenser Maintenance CWP submitted to OPG
7	MSR Maintenance CWP submitted	TBD	All MSR Maintenance CWP submitted to OPG
8	Modifications CWP submitted	TBD	All Modifications CWP submitted to OPG
9	Commissioning Work Plans		All Commissioning Work Plans Submitted to OPG
10	Generator Air Hold Test Report Submitted	TBD	Generator Air Hold Test Submitted to OPG
11	Modification AFS Declaration	TBD	All Modification AFS Declarations Submitted
12	History Docket Submittal Complete	TBD	History Docket Submitted to OPG
13	Unit Closeout Documents Submitted	TBD	Unit Closeout Documents Submitted to OPG
3rd Unit			
1	Detailed Execution Phase Target Schedule Submitted	TBD	Level 5 Execution Schedule Submitted to OPG
2	Mods Final Design Review & COMS Submittal	TBD	COMS review meeting completed
3	Layup Maintenance CWP submitted	TBD	All Layup Maintenance CWP submitted to OPG
4	Turbine Maintenance CWP submitted	TBD	All Turbine Maintenance CWP submitted to OPG
5	Generator Maintenance CWP submitted	TBD	All Generator Maintenance CWP submitted to OPG
6	Condenser Maintenance CWP submitted	TBD	All Condenser Maintenance CWP submitted to OPG
7	MSR Maintenance CWP submitted	TBD	All MSR Maintenance CWP submitted to OPG
8	Modifications CWP submitted	TBD	All Modifications CWP submitted to OPG
9	Commissioning Work Plans		All Commissioning Work Plans Submitted to OPG
10	Generator Air Hold Test Report Submitted	TBD	Generator Air Hold Test Submitted to OPG
11	Modification AFS Declaration	TBD	All Modification AFS Declarations Submitted
12	History Docket Submittal Complete	TBD	History Docket Submitted to OPG
13	Unit Closeout Documents Submitted	TBD	Unit Closeout Documents Submitted to OPG
4th Unit			
1	Detailed Execution Phase Target Schedule Submitted	TBD	Level 5 Execution Schedule Submitted to OPG
2	Mods Final Design Review & COMS Submittal	TBD	COMS review meeting completed
3	Layup Maintenance CWP submitted	TBD	All Layup Maintenance CWP submitted to OPG
4	Turbine Maintenance CWP submitted	TBD	All Turbine Maintenance CWP submitted to OPG
5	Generator Maintenance CWP submitted	TBD	All Generator Maintenance CWP submitted to OPG
6	Condenser Maintenance CWP submitted	TBD	All Condenser Maintenance CWP submitted to OPG
7	MSR Maintenance CWP submitted	TBD	All MSR Maintenance CWP submitted to OPG
8	Modifications CWP submitted	TBD	All Modifications CWP submitted to OPG
9	Commissioning Work Plans		All Commissioning Work Plans Submitted to OPG
10	Generator Air Hold Test Report Submitted	TBD	Generator Air Hold Test Submitted to OPG
11	Modification AFS Declaration	TBD	All Modification AFS Declarations Submitted
12	History Docket Submittal Complete	TBD	History Docket Submitted to OPG
13	Unit Closeout Documents Submitted	TBD	Unit Closeout Documents Submitted to OPG
Common			
1	Written notice of Final Mechanical Completion Submitted	TBD	Final notice of Mechanical Completion submitted to OPG
2	Project Close Out Report Submitted	TBD	Project close out report submitted to OPG

ATTACHMENT D

Schedule 2.8(a) - Submittal Review Periods

Document Type	Description/Example	Initial Review Period	Subsequent Review Period
Management Plans	Project Plans, FME Plans, Quality Plans, Health and Safety Plans, etc.	10 Business Days	5 Business Days
Work Instructions	CWP's, ITP's, Procedures, Detailed Work Instructions, etc.	15 Business Days	10 Business Days
Purchase Orders		10 Business Days	5 Business Days
ITP Hold Points		5 Business Days	5 Business Days
QA/QC Non-Conformance	Physical evidence that material, installation, workmanship, etc. are not in accordance with installation procedure and/or quality documentation at which point the existing condition can be either dispositioned or reworked	5 Business Days	5 Business Days
Engineering Documents	Drawings, Specifications, Calculations, BOM's, etc.	15 Business Days	10 Business Days
Field Change Notice	Deviation from installation drawings during field execution	≤ 1 Business Day	≤ 1 Business Day
Progress Schedule		15 Business Days	5 Business Days
Construction Completion Declarations (the "CCD")	CCDs	15 Business Days	10 Business Days

*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

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ATTACHMENT E

Schedule 2.8(b)(1) - Submittal Requirements

The Contractor will ensure that, at a minimum, the following Submittals contain the following concepts or information (for clarity, this is not a complete list of Submittals):

<p>(1) Project Management Plan (PMP) – Definition Phase</p>	<p>Clearly details the methodology by which the Contractor proposes to complete the Definition Phase of the Work in the specified time. The PMP should be an over-arching document that integrates all plans identified in Section 3.4.1 through 3.4.20 inclusive of “A Guide to the Project Management Body of Knowledge – Fourth Edition” required for the definition phase of the Work, including schedules to meet the Work, resource requirements, schedule management plan, scope management plan, communication plan, IT plan (including proposed integration with OPG’s <i>Program Integrated Master Schedule</i> and project costs and performance management tools), risk management plan and risk register for the definition phase of the Work.</p> <p>Contains, at a minimum, information identified in items (a) to (g) below.</p>
<p>(a) Tooling and Materials Management Plan</p>	<p>Encompasses the entire lifecycle of the tooling and materials. Includes such details as logistics to and from the work area and protected area, tooling calibration programs, tooling inspection and maintenance programs and contingency tooling and readiness.</p> <p>Also, includes how the Contractor will procure, manage and control both tooling and materials throughout the lifecycle of the Project. Includes the Contractor’s approach to: design, fabrication, source surveillance, expediting, transportation/logistics, delivery, site receipt,</p>

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		<p>staffing and succession plans, scheduling, storage locations, how the tooling and materials will be stored (including between refurbishment outages) and monitored and flow of the tooling and materials from storage locations through staging locations and to the final work area(s) and location.</p> <p>Documents how the Contractor proposes to procure, manage and control Goods (materials) throughout the lifecycle of the Project.</p>
	(b) Waste Management Plan	<p>Documents how the Contractor intends to deal with all waste from the Project including such items as consumables and any other waste anticipated. The plan should clearly document the Contractor's approach to housekeeping, logistics for the waste, identification of the anticipated amount of waste, where the waste will be segregated and details of the removal of waste from the Project by the Contractor during the Execution Phase of the Work. The plan will consider recycling, volume reduction, transportation requirements / elements, etc.</p>
	(c) Site Infrastructure and Layout Plan	<p>Provides details as to how the Contractor will utilize the OPG provided site infrastructure resources and any additional infrastructure that the Contractor will build / supply to complete all Work. The Contractor will also provide a list of additional site requirements/services to OPG for consideration.</p>
	(d) Site Interface and Coordination Plan	<p>Documents how the Contractor intends to work with OPG, Subcontractors and Other OPG Contractors that OPG employs to do work. It has been identified that there will be multiple work programs being executed concurrently and the coordination and integration of this work must be formally documented for success.</p>

<p>(e) Project Controls Plan / Strategy</p>	<p>Includes scope management, estimating management, cost management plan, change control and change management plan, project reporting (cost, schedule, quality and safety), commercial risk management plan, including claims avoidance management, contingency management, assumptions and issues management, project information management, performance management, project close-out and knowledge management. This plan must be transparent, accessible and verifiable by OPG and its representatives. This plan must be at least as rigorous and comprehensive as OPG's own project controls methodology and must include the Contractor's approach to the use of project management and control systems, including identification of which systems are intended to be used (the Contractor's or OPG's), the data that is intended to be made available to OPG, the form of such data, and the access to the Contractor's systems that are intended to be made available to OPG.</p> <p>OPG Reference(s): N-STD-AS-0028 Project Management Standard and N-MAN-00120-10001 Project Management Plan.</p> <p><u>Third Party Software</u></p> <ul style="list-style-type: none"> • Primavera Planner P6 (scheduling) • Coreworx Oncore (time management) • Pertmaster (for schedule risk management) • @Risk (risk management) • Electronic Document Management Tools (document management) <p><u>Other Reference Materials</u></p> <ul style="list-style-type: none"> • Project Management Institute's PMBOK methodology and AACE's Total Cost Management Framework • AACE Class II Definitive Cost Estimate
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		<ul style="list-style-type: none"> • AACE Recommended Practice No. 37R-06 Schedule Levels of Detail – As Applied in Engineering, Procurement and Construction <p>See Attachment 2.8(b)(1)(A) to this Schedule 2.8(b)(1) for main areas for monthly Project reports for the Project Controls Plan.</p>
	(f) Quality Assurance Plan	Provides a detailed and comprehensive quality assurance plan for each and all phases of the Project in accordance with the requirements set out in the Agreement.
	(g) Resource Management Plan	Documents: (i) all resources required to complete the Work, including people, software, computer hardware, tooling, etc., and how the Contractor will manage these resources in a cost effective manner in order to execute the Project; (ii) a detailed training plan to ensure that all staff are trained in accordance with all Project, OPG and legal requirements for the Project; (iii) a detailed plan for obtaining and retaining required resources, including succession planning and knowledge management, to ensure required resources are available for the duration of the Project; and (iv) a detailed analysis of the predicted impact of current and predicted future workload of the Contractor and Subcontractors, including with respect to other major projects, on required resources and the Contractor's mitigation plan to ensure that such resources remain available and dedicated to the Project through all phases.
(2)	Project Management Plan (PMP) – Execution Phase	Documents how the work elements identified in Sections 3.5.1 thru 3.5.8 inclusive of "A Guide to the Project Management Body of Knowledge – Fourth Edition" for the Execution Phase of the Work including a field execution plan and interface plan. The Project Management Plan (PMP) for the execution

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	phase will consider and include / implement, at a minimum, the above items (a) to (g) from the Definition Phase Project Management Plan (PMP).
(3) Engineering Plan and Modifications Summary	Demonstrates a clear understanding of OPG's engineering change control (ECC) process and lists and describes all physical and other modifications required to be made by OPG or the Contractor to the existing plant to support the Project. The Engineering Plan and Modifications Summary will include the reduction in engineering effort for any engineering related work which is the same and /or similar to the first Unit to be refurbished (Unit 2). The plan will indicate the anticipated reductions in the progress schedule timelines as well as an approximation of the reduction in the level of effort required to complete engineering work on subsequent Units.
(4) Site Specific Safety	Provides an outline "Site-Specific Safety Plan" consistent with N-GUID-09701-10003- R000 Darlington Refurbishment – Safety Management Essentials that details how the Contractor intends to manage the Health & Safety aspect of the Project and compliance with the requirements of the Agreement.
(5) Lifting, Craining, Hoisting, and Rigging Plan	A detailed lifting, hoisting, and rigging plan will consider all requirements for performing the Work. The plan will ensure all necessary steps to the perform Work safely and in accordance with <i>Occupational Health and Safety Act</i> (Ontario), OPG standards, and industry best practices.
(6) Target Schedule for the Definition Phase	Demonstrates how the Contractor will ensure that the progress / target schedule (including all required and envisaged submittals, deliverables, key project milestones and critical

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	path analysis) is achieved. At a minimum, Level 3 / 4 resources loaded target schedule is required.
(7) Target Schedule for the Execution Phase	Demonstrates how the Contractor will ensure that the progress / target schedule (including all required and envisaged submittals, deliverables and key project milestones) is achieved. Progressive Level 3, 4, and 5 Execution Phase Target Schedule(s) are required.
(8) Project Estimate Plan	Includes definitions of key terminology, accountabilities and responsibility matrix, estimating development process, estimating validation process, recognition of OPG rolling stage gate program, types of estimates in support of OPG and classifications, baseline estimate, contingency, assumptions, exclusions, allowances, indexation process, benchmarking, estimate methodology, fair price, estimate reviews and assurance, estimate reporting, basis of estimate and requirements for due diligence.
(9) Open Book Management Plan	Provides a detailed and comprehensive open book management plan to effectively manage the contractual relationship with OPG on a real-time open book basis, including full financial and contractual transparency with respect to accounting systems, software systems, compliance, controls, currency and commodity hedging plans, financial auditing, reporting, and real-time access to books and records. The plan must address issues of financial and commercial transparency for both self-performed Work and Work performed by Subcontractors of all tiers.
(10) Contract Management and Oversight Plan	Provides a detailed and comprehensive plan to effectively manage the contractual relationship with OPG, including flexibility and creativity in

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	meeting the needs of the customer beyond a strict interpretation of the contract, contract management organization, succession planning for contract managers, knowledge transfer to and from the project team, decision-making responsibility related to issues impacting scope, timeline and budget, identification and timely resolution of issues, escalation procedures in order to remedy problems and issues, including triggers, individuals involved and time for resolution.
(11) Subcontractor Relationship and Procurement Management Plan	<p>Documents how the Contractor will manage relationships with Subcontractors including financial health, performance, working relationship, and risk mitigation activities. Provides details of the percentage of Work to be direct hire and to be subcontracted or outsourced by the Contractor. Provides the full legal name and address of each Subcontractor (including suppliers) that the Contractor will use under the Agreement. Indicates the name, address and scope of work of each Subcontractor. Provides the full legal name of each Subcontractor's direct and ultimate parent company. Provides support letters and term sheets or heads of agreements for all Subcontractors.</p> <p>The plan must also document how the Contractor proposes to and will procure goods and materials, and achieve "value for money" throughout the lifecycle of the Project. The plan must include the Contractor's approach to quality assurance, sourcing of Goods, bidder prequalification, competitive procurement processes, evaluation, negotiation, contract award and supplier management.</p>
(12) Continuous Improvement Plan	Identifies areas for improvement through a thorough review of internal / external operating experience for the Work performed.

*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

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	Anticipated efficiency gains and productivity improvement for same / similar type of work for subsequent Units. Demonstrates ability and approach to re-use of previously completed work to improve the overall efficiency and quality. Includes capture and transfer of knowledge / experience gained through field installation and execution activities (e.g. troubleshooting).
(13) Construction Completion Declarations	The Contractor will assemble the Construction Completion Declaration package(s), which document the completion of construction work on the Turbine Generator Systems, Structures, and Components. The CCD and associated records are prepared in accordance with N-GUID-09701-10021 and confirms that all work has been completed to applicable contractual and regulatory requirements, codes and standards, and design and installation documentation.

ATTACHMENT F

Schedule 7.1 – Contract Price

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

1. Attachment 7.1(1) – Contract Price;
2. Attachment 7.1(2) – Adjustable Cost Indices;
3. Attachment 7.1(3a) – Definition Phase Labour Schedules;
4. Attachment 7.1(3b) – Execution Phase Labour Schedules;
5. Attachment 7.1(4) – Definition Phase Target Cost;
6. Attachment 7.1(5) – Cost Flow Definition Phase Target Cost;
7. Attachment 7.1(6) – Definition Phase Fixed Fee;
8. Attachment 7.1(7) – Execution Phase Target Cost (Non-Trades);
9. Attachment 7.1(8) - Cost Flow Execution Phase Target Cost (Non-Trades);
10. Attachment 7.1(9) – Execution Phase Fixed Fee;
11. Attachment 7.1(10) – Execution Phase SS&E Target Cost and Fixed Fee;
12. Attachment 7.1(11) – Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee;
13. Attachment 7.1(12) – CPP EI Contributions;
14. Attachment 7.1(13) – Cost Allocation Table; and
15. Attachment 7.1(14) – Contractor’s RFR Travel and Per Diem Policy.



Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(1) - Contract Price

Contract Price is defined in Section 1.1(r) of the Agreement.

Pricing Model/SOW/Unit	Total	Turbine and Auxiliaries	Generator and Auxiliaries	Moisture Separator Reheaters	Layup	Turbine Controls Upgrade	Generator Excitation Controls Upgrade
Definition Phase Target Cost	\$ 21,356,230						
No specific Unit	\$ 21,356,230						
Definition Phase Fixed Fee	\$ 12,871,701						
No specific Unit	\$ 12,871,701						
The Definition Phase Price is:	\$ 34,227,931						
Execution Phase Target Cost	\$ -						
No specific Unit	\$ -						
Execution Phase Fixed Fee	\$ -						
No specific Unit	\$ -						
Execution Phase Target Cost	\$ 148,271,110	\$ 64,415,960	\$ 35,952,362	\$ 2,017,463	\$ 2,130,211	\$ 39,724,192	\$ 4,030,922
1st Unit - Unit 2	\$ 21,637,193	\$ 13,488,275	\$ 5,655,493	\$ 924,585	\$ 448,668	\$ 635,876	\$ 484,297
2nd Unit - Unit 3	\$ 31,961,292	\$ 11,610,507	\$ 9,021,353	\$ 274,512	\$ 422,191	\$ 9,749,650	\$ 883,079
3rd Unit - Unit 1	\$ 31,100,933	\$ 11,583,797	\$ 8,191,310	\$ 270,005	\$ 415,212	\$ 9,754,813	\$ 885,797
4th Unit - Unit 4	\$ 34,551,536	\$ 16,052,692	\$ 6,157,603	\$ 297,848	\$ 458,691	\$ 10,620,299	\$ 964,403
Execution Planning - Unit 3	\$ 8,585,710	\$ 3,118,912	\$ 2,423,391.41	\$ 73,741.66	\$ 113,412.35	\$ 2,619,032.82	\$ 237,220.22
Execution Planning - Unit 1	\$ 10,115,718	\$ 3,767,682	\$ 2,664,260.03	\$ 87,820.21	\$ 135,049.70	\$ 3,172,796.53	\$ 288,109.42
Execution Planning - Unit 4	\$ 10,318,728	\$ 4,794,096	\$ 1,838,953	\$ 88,952	\$ 136,986.80	\$ 3,171,725	\$ 288,016
Execution Phase Fixed Fee	\$ 50,820,639	\$ 21,846,658	\$ 12,298,298	\$ 655,785	\$ 722,353	\$ 13,909,876	\$ 1,387,669
1st Unit - Unit 2	\$ 6,368,563	\$ 3,970,058	\$ 1,664,604	\$ 272,137	\$ 132,058	\$ 187,160	\$ 142,545
2nd Unit - Unit 3	\$ 9,079,190	\$ 3,298,177	\$ 2,562,680	\$ 77,980	\$ 119,931	\$ 2,769,567	\$ 250,855
3rd Unit - Unit 1	\$ 8,791,543	\$ 3,274,482	\$ 2,315,501	\$ 76,324	\$ 117,371	\$ 2,757,469	\$ 250,395
4th Unit - Unit 4	\$ 9,740,608	\$ 4,525,500	\$ 1,735,923	\$ 83,968	\$ 129,312	\$ 2,994,025	\$ 271,880
Execution Planning - Unit 3	\$ 4,982,388	\$ 1,809,941	\$ 1,406,322	\$ 42,793	\$ 65,815	\$ 1,519,855	\$ 137,662
Execution Planning - Unit 1	\$ 5,870,269	\$ 2,186,430	\$ 1,546,101	\$ 50,963	\$ 78,371	\$ 1,841,211	\$ 167,193
Execution Planning - Unit 4	\$ 5,988,079	\$ 2,782,070	\$ 1,067,166	\$ 51,620	\$ 79,495	\$ 1,840,589	\$ 167,139
Execution Phase SS&E Target Cost & SS&E Fixed Fee	\$ 15,071,597	\$ 6,636,356	\$ 3,673,076	\$ 220,136	\$ 219,830	\$ 3,914,915	\$ 407,283
1st Unit - Unit 2 - Target Cost	\$ 2,242,604	\$ 1,398,003	\$ 586,168	\$ 95,829	\$ 46,503	\$ 65,906	\$ 50,195
1st Unit - Unit 2 - Fixed Fee	\$ 398,421	\$ 248,369	\$ 104,139	\$ 17,025	\$ 8,262	\$ 11,709	\$ 8,918
2nd Unit - Unit 3 - Target Cost	\$ 2,975,564	\$ 1,080,926	\$ 839,879	\$ 25,557	\$ 39,306	\$ 907,682	\$ 82,214
2nd Unit - Unit 3 - Fixed Fee	\$ 528,639	\$ 192,037	\$ 149,213	\$ 4,540	\$ 6,983	\$ 161,259	\$ 14,606
3rd Unit - Unit 1 - Target Cost	\$ 2,983,079	\$ 1,111,072	\$ 785,678	\$ 25,898	\$ 39,826	\$ 935,643	\$ 84,962
3rd Unit - Unit 1 - Fixed Fee	\$ 529,974	\$ 197,393	\$ 139,584	\$ 4,601	\$ 7,075	\$ 166,226	\$ 15,094
4th Unit - Unit 4 - Target Cost	\$ 3,140,671	\$ 1,459,160	\$ 559,715	\$ 27,074	\$ 41,694	\$ 965,366	\$ 87,662
4th Unit - Unit 4 - Fixed Fee	\$ 557,972	\$ 259,234	\$ 99,439	\$ 4,810	\$ 7,407	\$ 171,507	\$ 15,574
Execution Planning - Unit 3 - Target Cost	\$ 486,387	\$ 176,689	\$ 137,287	\$ 4,178	\$ 6,425	\$ 148,370	\$ 13,439
Execution Planning - Unit 3 - Fixed Fee	\$ 20,905	\$ 7,594	\$ 5,901	\$ 180	\$ 276	\$ 6,377	\$ 578
Execution Planning - Unit 1 - Target Cost	\$ 573,063	\$ 213,442	\$ 150,932	\$ 4,975	\$ 7,651	\$ 179,741	\$ 16,322
Execution Planning - Unit 1 - Fixed Fee	\$ 24,630	\$ 9,174	\$ 6,487	\$ 214	\$ 329	\$ 7,725	\$ 702
Execution Planning - Unit 4 - Target Cost	\$ 584,564	\$ 271,589	\$ 104,178	\$ 5,039	\$ 7,760	\$ 179,681	\$ 16,316
Execution Planning - Unit 4 - Fixed Fee	\$ 25,125	\$ 11,673	\$ 4,478	\$ 217	\$ 334	\$ 7,723	\$ 701
The Execution Phase Price is:	\$ 214,163,346	\$ 92,898,974	\$ 51,923,737	\$ 2,893,384	\$ 3,072,393	\$ 57,548,984	\$ 5,825,874
The Contract Price is:	\$ 248,391,277	\$ 92,898,974	\$ 51,923,737	\$ 2,893,384	\$ 3,072,393	\$ 57,548,984	\$ 5,825,874

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(1) - Contract Price

Contract Price is defined in Section 1.1(r) of the Agreement.

Pricing Model/SOW/Unit	Total	Turbine and Auxiliaries	Generator and Auxiliaries	Moisture Separator Reheaters	Layup	Turbine Controls Upgrade	Generator Excitation Controls Upgrade
Dynamic Commissioning Work (Trades only) (Estimate)	\$ 1,876,218	\$ 790,116	\$ 456,250	\$ 22,214	\$ 26,230	\$ 529,853	\$ 51,555
1st Unit - Unit 2	\$ 176,574	\$ 110,073	\$ 46,153	\$ 7,545	\$ 3,661	\$ 5,189	\$ 3,952
2nd Unit - Unit 3	\$ 566,548	\$ 205,809	\$ 159,913	\$ 4,866	\$ 7,484	\$ 172,823	\$ 15,654
3rd Unit - Unit 1	\$ 566,548	\$ 211,015	\$ 149,216	\$ 4,919	\$ 7,564	\$ 177,698	\$ 16,136
4th Unit - Unit 4	\$ 566,548	\$ 263,219	\$ 100,967	\$ 4,884	\$ 7,521	\$ 174,143	\$ 15,813
Mark-Up for Dynamic Commissioning Work (Estimate)	\$ 375,244	\$ 158,023	\$ 91,250	\$ 4,443	\$ 5,246	\$ 105,971	\$ 10,311
1st Unit - Unit 2	\$ 35,315	\$ 22,015	\$ 9,231	\$ 1,509	\$ 732	\$ 1,038	\$ 790
2nd Unit - Unit 3	\$ 113,310	\$ 41,162	\$ 31,983	\$ 973	\$ 1,497	\$ 34,565	\$ 3,131
3rd Unit - Unit 1	\$ 113,310	\$ 42,203	\$ 29,843	\$ 984	\$ 1,513	\$ 35,540	\$ 3,227
4th Unit - Unit 4	\$ 113,310	\$ 52,644	\$ 20,193	\$ 977	\$ 1,504	\$ 34,829	\$ 3,163
Cost Reimbursable with Mark-Up (Estimate)	\$ 4,819,569	\$ 1,901,850	\$ 1,174,405	\$ 41,341	\$ 63,605	\$ 1,477,555	\$ 134,036
1st Unit - Unit 2 - Target Cost	\$ 511,276	\$ 185,730	\$ 144,312	\$ 4,391	\$ 6,754	\$ 155,963	\$ 14,126
1st Unit - Unit 2 - Fixed Fee	\$ 25,564	\$ 9,287	\$ 7,216	\$ 220	\$ 338	\$ 7,798	\$ 706
2nd Unit - Unit 3 - Target Cost	\$ 1,320,775	\$ 479,795	\$ 372,800	\$ 11,344	\$ 17,447	\$ 402,897	\$ 36,493
2nd Unit - Unit 3 - Fixed Fee	\$ 66,039	\$ 23,990	\$ 18,640	\$ 567	\$ 872	\$ 20,145	\$ 1,825
3rd Unit - Unit 1 - Target Cost	\$ 1,343,228	\$ 500,296	\$ 353,777	\$ 11,661	\$ 17,933	\$ 421,304	\$ 38,257
3rd Unit - Unit 1 - Fixed Fee	\$ 67,161	\$ 25,015	\$ 17,689	\$ 583	\$ 897	\$ 21,065	\$ 1,913
4th Unit - Unit 4 - Target Cost	\$ 1,389,286	\$ 645,464	\$ 247,592	\$ 11,976	\$ 18,444	\$ 427,033	\$ 38,778
4th Unit - Unit 4 - Fixed Fee	\$ 69,464	\$ 32,273	\$ 12,380	\$ 599	\$ 922	\$ 21,352	\$ 1,939
Definition Phase - Goods - Target Cost	\$ 25,500						
Definition Phase - Goods - Fixed Fee	\$ 1,275						
Cost Reimbursable with no Mark-Up (Estimate)	\$ 11,439,237	\$ 5,036,876	\$ 2,790,034	\$ 167,332	\$ 166,900	\$ 2,969,040	\$ 309,055
1st Unit - Unit 2	\$ 2,011,956	\$ 1,254,221	\$ 525,882	\$ 85,973	\$ 41,720	\$ 59,128	\$ 45,033
2nd Unit - Unit 3	\$ 2,647,661	\$ 961,810	\$ 747,325	\$ 22,740	\$ 34,974	\$ 807,657	\$ 73,154
3rd Unit - Unit 1	\$ 2,574,184	\$ 958,776	\$ 677,984	\$ 22,348	\$ 34,367	\$ 807,393	\$ 73,316
4th Unit - Unit 4	\$ 2,727,437	\$ 1,267,171	\$ 486,070	\$ 23,512	\$ 36,208	\$ 838,347	\$ 76,128
Execution Planning - Unit 3	\$ 437,271	\$ 158,847	\$ 123,424	\$ 3,756	\$ 5,776	\$ 133,388	\$ 12,082
Execution Planning - Unit 1	\$ 515,195	\$ 191,888	\$ 135,691	\$ 4,473	\$ 6,878	\$ 161,591	\$ 14,673
Execution Planning - Unit 4	\$ 525,534	\$ 244,164	\$ 93,658	\$ 4,530	\$ 6,977	\$ 161,536	\$ 14,669

Notes:

1. Execution Planning is the Work allocated for planning and preparation for Execution Phase for each of the subsequent Units (Unit 3, 1 and 4).
2. The above Attachment 7.1(1)-Contract Price excludes the following which will be added to the Agreement by an Amendment following agreement between the parties on the scope, cost and schedule of each:
 - CYCLIC WORK SCOPE (PREVENTIVE MAINTENANCE) applicable to subsequent Units (Unit 3, 1 and 4);
 - Installation of Unit 2 Deferred Modifications;
 - Contingency Work as defined in the Agreement Section 2.10(b).

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(2) - Adjustable Cost Indices

The following is a list of all Adjustable Costs (as that term is defined in Schedule 5.7), applicable indices, and base escalation rates to be used in the development of the escalated prices/costs for the Definition Phase Reimbursable Work and Execution Phase Reimbursable Work. The applicable indices and rates specified in this table will be used for the purposes of calculating annual Economic Cost Adjustments (as that term is defined in Schedule 5.7) for each of the Adjustable Cost categories listed below.

The Proponent is strongly encouraged to use indices for escalation that demonstrate the following characteristics:

- (a) Directly related index: The escalator should be an index that is tied to a commodity, equipment, industry, or labour type included in the relevant Adjustable Cost category.
- (b) Adequate history: The escalator should have at least 5 years of annual historical data.
- (c) Publicly available: Data should be publicly available from a government or other respected industry source.
- (d) Adequate liquidity: The index should be sufficiently liquid so that there are not many occurrences of stale prices.

OPG recommends that the Proponent use the most recent 5-year historical compound annual growth rate to forecast escalation rates for each Adjustable Cost category listed below.

Adjustable Cost Reference #	Adjustable Cost	Applicable Index	Forecasted Year-Over-Year Escalation Rates													
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Index 1a.2	Unit 2 - PMT Non-Unionised Labour - Home Office	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price				3.20%	3.20%	3.20%	3.20%							
Index 2.2	Unit 2 - Trades Unionised Labour	Union Collective Agreements				2.50%	2.50%	2.50%	2.50%							
Index 1b.2	Non-Unionised Labour - Home Office Subcontractor	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price														
Other Adjustable Costs (Proponent to insert additional line items if required)																
Index 1a.3	Unit 3 - PMT Non-Unionised Labour - Home Office	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price				3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%				
Index 2.3	Unit 3 - Trades Unionised Labour	Union Collective Agreements				2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%				
Index 1a.1	Unit 1 - PMT Non-Unionised Labour - Home Office	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price				3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%			
Index 2.1	Unit 1 - Trades Unionised Labour	Union Collective Agreements				2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%			
Index 1a.4	Unit 4 - PMT Non-Unionised Labour - Home Office	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price				3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	
Index 2.4	Unit 4 - Trades Unionised Labour	Union Collective Agreements				2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Index 1b.3	Unit 3 - EPP - PMT Non-Unionised Labour - Home Office Subcontractor	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price				3.20%	3.20%	3.20%	3.20%	3.20%						
Index 1b.1	Unit 1 - EPP - PMT Non-Unionised Labour - Home Office Subcontractor	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price				3.20%	3.20%	3.20%	3.20%	3.20%	3.20%					
Index 1b.4	Unit 4 - EPP - PMT Non-Unionised Labour - Home Office Subcontractor	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price				3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%		
Index 1d.1	No specific Unit Non-Unionised Labour - Home Office Subcontractor	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Index 1d.2	No specific Unit Non-Unionised Labour - Home Office Subcontractor	Statistics Canada; Consulting Engineering Services Price Index (CESPI); Table 327-0007; Total Price	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Index 1d.3	Non-Adjustable Costs	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Index 1d.4	Non-Adjustable Costs	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Index 12	Non-Adjustable Costs	N/A		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Index List

Index 1a.2	U2 - PMT (Home Office PMT, Site PMT, Rework, & Contingency)
Index 2.2	U2 - Trades (Crafts, Support Services, Training, Rework, Subcontractors, & Contingency)
Index 1b.2	
Index 1a.3	U3 - PMT (Home Office PMT, Site PMT, Rework, & Contingency)
Index 2.3	U3 - Trades (Crafts, Support Services, Training, Rework, Subcontractors, & Contingency)
Index 1a.1	U1 - PMT (Home Office PMT, Site PMT, Rework, & Contingency)
Index 2.1	U1 - Trades (Crafts, Support Services, Training, Rework, Subcontractors, & Contingency)
Index 1a.4	U4 - PMT (Home Office PMT, Site PMT, Rework, & Contingency)
Index 2.4	U4 - Trades (Crafts, Support Services, Training, Rework, Subcontractors, & Contingency)
Index 1b.3	U3 - EPP U3,1,4 - PMT
Index 1b.1	U1 - EPP U3,1,4 - PMT
Index 1b.4	U4 - EPP U3,1,4 - PMT
Index 1d.1	No specific Unit - Definition Phase
Index 1d.2	No specific Unit - Definition Phase
Index 1d.3	No specific Unit - Definition Phase
Index 1d.4	No specific Unit - Definition Phase

Note: The following indexes - Index 1a.2, Index 1a.3, Index 1a.4, Index 1b.3, Index 1b.4, Index 1b.4 applicable for the Execution Phase were using a new value of 3.2%, that is the average from the past 6 years of CESPI (2007-2012). For the unionized labour under Collective Agreements the index used was setup at 2.5% as per last 5 years average rate increase.

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Ref.	Unit	Wage Rate Schedule	Classification	Job Title	Grade & Code	Effective Date	Normal Time (hr)	Comp Time (hr)	Rate Hourly	Vacation Pay	Wage Package Build-up	Unempl. Funds	Total Wage Package (15%)	Business Expenses (15%)	Productive Time Calculation	Gross Annual	Working Days	Gross	Status/VR	Status/VR	Vacation	Sick Leave	Training	Net Productive	Ontario R.T. payable on	Canada Pension	Employment Insurance	Employer Health	Workforce	Non-Project Training	Sickness	Employee Stock Option	Healthcare and Dental Plan	Group Life and Disability	Registered Pension Plan (RPP)	Group Retirement Savings Plan (RRSP)	Other	Total Rate												
630	UPCA	Local 30	Roaders	Journeyman Roader (Inst)	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.41	2.93%	1.72	1.50%	0.88	1.36	4.00%	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$77.34/hr						
631	UPCA	Local 30	Roaders	Journeyman Roader (Inst)	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.41	2.93%	2.29	1.50%	1.17	1.74	4.00%	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$79.24/hr							
632	UPCA	Local 30	Roaders	Pre-Apprentice	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.29	2.93%	0.86	1.50%	0.44	0.71	4.00%	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$40.54/hr						
633	UPCA	Local 30	Roaders	Pre-Apprentice	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.29	2.93%	1.14	1.50%	0.59	0.90	4.00%	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$51.33/hr					
634	UPCA	Local 30	Roaders	Apprentice 1st Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.32	2.93%	1.03	1.50%	0.53	0.84	4.00%	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$47.88/hr					
635	UPCA	Local 30	Roaders	Apprentice 1st Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.32	2.93%	1.37	1.50%	0.70	1.07	4.00%	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$50.83/hr					
636	UPCA	Local 30	Roaders	Apprentice 2nd Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.34	2.93%	1.20	1.50%	0.62	0.91	4.00%	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$52.25/hr					
637	UPCA	Local 30	Roaders	Apprentice 2nd Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.34	2.93%	1.60	1.50%	0.82	1.24	4.00%	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$53.36/hr				
638	UPCA	Local 30	Roaders	Apprentice 3rd Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.37	2.93%	1.37	1.50%	0.70	1.10	4.00%	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$54.28/hr			
639	UPCA	Local 30	Roaders	Apprentice 3rd Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.37	2.93%	1.63	1.50%	0.94	1.41	4.00%	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$55.01/hr			
640	UPCA	Local 30	Roaders	Apprentice 4th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.41	2.93%	1.66	1.50%	0.85	1.33	4.00%	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$56.07/hr			
641	UPCA	Local 30	Roaders	Apprentice 4th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.41	2.93%	2.21	1.50%	1.13	1.69	4.00%	3.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$56.89/hr		
642	UPCA	Local 30	Roaders	Apprentice 5th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.41	2.93%	1.99	1.50%	0.91	1.41	4.00%	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$57.35/hr		
643	UPCA	Local 30	Roaders	Apprentice 5th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.41	2.93%	1.85	1.50%	0.95	1.45	4.00%	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$58.25/hr		
644	UPCA	Local 30	Roaders	Apprentice 6th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.41	2.93%	1.29	1.50%	0.66	1.07	4.00%	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$59.91/hr		
645	UPCA	Local 30	Roaders	Apprentice 6th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.41	2.93%	1.72	1.50%	0.88	1.36	4.00%	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$60.31/hr	
646	UPCA	Local 30	Roaders	Apprentice 7th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	1.56	1.50%	0.80	1.25	4.00%	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$61.78/hr	
647	UPCA	Local 30	Roaders	Apprentice 7th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	2.09	1.50%	1.07	1.59	4.00%	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$62.33/hr	
648	UPCA	Local 30	Roaders	Apprentice 8th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	1.58	1.50%	0.81	1.26	4.00%	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$63.11/hr
649	UPCA	Local 30	Roaders	Apprentice 8th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	2.11	1.50%	1.08	1.61	4.00%	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$63.78/hr
650	UPCA	Local 30	Roaders	Apprentice 9th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	1.59	1.50%	0.82	1.27	4.00%	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$64.30/hr
651	UPCA	Local 30	Roaders	Apprentice 9th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	2.12	1.50%	1.09	1.62	4.00%	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$64.91/hr
652	UPCA	Local 30	Roaders	Apprentice 10th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	1.49	1.50%	0.76	1.20	4.00%	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$65.34/hr
653	UPCA	Local 30	Roaders	Apprentice 10th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	1.99	1.50%	1.02	1.53	4.00%	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$66.48/hr
654	UPCA	Local 30	Roaders	Apprentice 11th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	1.51	1.50%	0.77	1.21	4.00%	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$67.37/hr
655	UPCA	Local 30	Roaders	Apprentice 11th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	2.01	1.50%	1.03	1.54	4.00%	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$68.48/hr
656	UPCA	Local 30	Roaders	Apprentice 12th Period	465435	1-May-12	1.5	53.28	en	1.13	en	3.20	5.15	4.86	1.23	69.85	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0.43	2.93%	1.52	1.50%	0.78	1.22	4.00%	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$68.93/hr
657	UPCA	Local 30	Roaders	Apprentice 12th Period	465435	1-May-12	2	71.04	en	2.84	en	4.26	5.15	4.86	1.23	89.38	0.20	10.00	3,650.00	en	4	20	5	5	2,729	0																								

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Ref.	Union	Wage Rate Schedule	Classification	Job Title	Grade #	Description Code	Effective Date		Normal Time / Overtime Multiplier	Wage Package Build-up					Previous 15/1	Unions Funds 15/1	Total Wages 15/1	Total Base Wage 15/1	Burdens via EPSCA Assesment 15/1	Productive Time Calculation Weekly Hours 15/1	Gross Annual 15/1	Working Hours 15/1	Status	Status	Seniority 15/1	Skill Level 15/1	Training 15/1	Net Productive 15/1	Ontario R.S.T. payable on 15/1		Government Burdens 15/1				Registered Pension Plan (RPP) 15/1				Group Retirement Savings Plan (GRSP) 15/1				Others 15/1	Total Rate Chargeable 15/1			
							Start 15/1	Finish 15/1		Base Hourly 15/1	Vacation Pay 15/1	Holiday Pay 15/1	Welfare 15/1	15/2															15/3	15/4	Employment 15/1	Employer Health 15/1	Workforce 15/1	Non-Project Training 15/1	Sickness 15/1	Employee Stock Option 15/1	Healthcare and Dental Plan 15/1	Group Life and Disability 15/1	15/2	15/3	15/4	15/5			15/6	15/7	
1220	Non-Trade	N/A	Holder of Record	N/A	N/A		1 Jan-13	31-Dec-13	2	89.48	1%	4.67	1%	4.67	3.99	11.00	6.60	127.42	N/A	0.20	-	-	-	-	-	-	-	0.32	2.03%	3.01	1.54	2.48	4.00%	5.17								\$139.85 / hr					
1221	Non-Trade	N/A	Work Protection Coordinator	N/A	N/A		1 Jan-13	31-Dec-13	1	84.94	1%	2.34	1%	2.34	2.66	7.00	3.30	64.37	N/A	0.20	-	-	-	-	-	-	-	0.32	2.03%	3.01	1.51	0.77	1.26	4.00%	2.61							\$126.78 / hr					
1222	Non-Trade	N/A	Work Protection Coordinator	N/A	N/A		1 Jan-13	31-Dec-13	1.5	70.11	1%	3.51	1%	3.51	3.99	10.50	4.95	96.56	N/A	0.20	-	-	-	-	-	-	-	0.32	2.03%	2.26	1.50	1.16	1.88	4.00%	3.02							\$106.04 / hr					
1223	Non-Trade	N/A	Work Protection Coordinator	N/A	N/A		1 Jan-13	31-Dec-13	2	93.48	1%	4.67	1%	4.67	3.99	11.00	6.60	127.42	N/A	0.20	-	-	-	-	-	-	-	0.32	2.03%	3.01	1.50	1.54	2.48	4.00%	5.17							\$139.89 / hr					
1224	Non-Trade	N/A	Technical Advisor	N/A	N/A		1 Jan-13	31-Dec-13	1	84.72	1%	2.74	1%	2.74	2.66	7.00	3.30	73.15	N/A	0.20	-	-	-	-	-	-	-	0.32	2.03%	2.74	1.50	0.80	1.43	4.00%	2.57							\$120.47 / hr					
1225	Non-Trade	N/A	Technical Advisor	N/A	N/A		1 Jan-13	31-Dec-13	1.5	82.08	1%	4.10	1%	4.10	3.99	10.50	4.95	109.73	N/A	0.20	-	-	-	-	-	-	-	0.32	2.03%	2.65	1.50	1.35	2.14	4.00%	4.46							\$120.58 / hr					
1226	Non-Trade	N/A	Technical Advisor	N/A	N/A		2 Jan-13	31-Dec-13	2	109.45	1%	5.47	1%	5.47	5.32	14.00	6.60	146.31	N/A	0.20	-	-	-	-	-	-	-	0.43	2.03%	3.53	1.50	1.81	2.85	4.00%	5.94							\$160.69 / hr					
1227	Non-Trade	N/A	Training Coordinator	N/A	N/A		1 Jan-13	31-Dec-13	1	82.31	1%	2.12	1%	2.12	N/A	N/A	46.57	N/A	0.20	-	-	-	-	-	-	-	-	2.03%	1.36	1.50	0.76	0.91	4.00%	1.79	3.0%	1.40	2.7%	1.23	1.0%	0.47	5.3%	2.45	0.4%	0.39	3.85%	1.79	\$130.29 / hr
1228	Non-Trade	N/A	Training Coordinator	N/A	N/A		1 Jan-13	31-Dec-13	1.5	63.50	1%	3.17	1%	3.17	N/A	N/A	69.85	N/A	0.20	-	-	-	-	-	-	-	-	2.03%	2.05	1.50	1.05	1.16	4.00%	2.84	3.0%	2.20	2.7%	1.85	1.0%	0.71	5.3%	3.67	0.6%	0.44	0.00%	-	\$86.10 / hr
1229	Non-Trade	N/A	Training Coordinator	N/A	N/A		1 Jan-13	31-Dec-13	2	88.67	1%	4.23	1%	4.23	N/A	N/A	93.13	N/A	0.20	-	-	-	-	-	-	-	-	2.03%	2.73	1.50	1.40	1.82	4.00%	3.78	3.0%	2.79	2.7%	2.47	1.0%	0.95	5.3%	4.90	0.4%	0.59	0.00%	-	\$114.73 / hr
1230	Non-Trade	N/A	Commissioning Manager	N/A	N/A		1 Jan-13	31-Dec-13	1	82.08	1%	4.10	1%	4.10	N/A	N/A	83.60	N/A	7.00	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1231	Non-Trade	N/A	Commissioning Manager	N/A	N/A		1 Jan-13	31-Dec-13	1.5	108.41	1%	5.42	1%	5.42	N/A	N/A	119.29	N/A	0.20	-	-	-	-	-	-	-	-	2.03%	3.49	1.50	1.79	2.17	4.00%	4.84	3.0%	3.68	2.7%	3.16	1.0%	1.22	5.3%	6.37	0.4%	0.75	0.00%	-	\$146.86 / hr
1232	Non-Trade	N/A	Commissioning Manager	N/A	N/A		2 Jan-13	31-Dec-13	2	144.55	1%	7.23	1%	7.23	N/A	N/A	159.01	N/A	0.20	-	-	-	-	-	-	-	-	2.03%	4.66	1.50	2.39	3.17	4.00%	6.48	3.0%	4.77	2.7%	4.21	1.0%	1.42	5.3%	8.36	0.6%	1.00	0.00%	-	\$195.76 / hr
1233	Non-Trade	N/A	Commissioning Leads	N/A	N/A		1 Jan-13	31-Dec-13	1	84.72	1%	2.74	1%	2.74	2.66	7.00	3.30	73.15	N/A	0.20	-	-	-	-	-	-	-	0.32	2.03%	2.74	1.50	0.80	1.43	4.00%	2.57								\$120.47 / hr				
1234	Non-Trade	N/A	Commissioning Leads	N/A	N/A		1 Jan-13	31-Dec-13	1.5	82.08	1%	4.10	1%	4.10	3.99	10.50	4.95	109.73	N/A	0.20	-	-	-	-	-	-	-	0.32	2.03%	2.65	1.50	1.35	2.04	4.00%	4.46								\$120.58 / hr				
1235	Non-Trade	N/A	Commissioning Leads	N/A	N/A		2 Jan-13	31-Dec-13	2	109.45	1%	5.47	1%	5.47	5.32	14.00	6.60	146.31	N/A	0.20	-	-	-	-	-	-	-	0.43	2.03%	3.53	1.50	1.81	2.77	4.00%	5.67								\$160.69 / hr				
1236	Non-Trade	N/A	Subject Matter Experts	N/A	N/A		1 Jan-13	31-Dec-13	1	72.28	1%	3.61	1%	3.61	N/A	N/A	79.50	N/A	0.20	-	-	-	-	-	-	-	-	2.03%	2.33	1.50	1.13	1.55	4.00%	1.79	3.0%	2.39	2.7%	2.11	1.0%	0.81	5.3%	4.18	0.4%	0.50	3.85%	3.06	\$107.84 / hr
1237	Non-Trade	N/A	Subject Matter Experts	N/A	N/A		1 Jan-13	31-Dec-13	1.5	108.41	1%	5.42	1%	5.42	N/A	N/A	119.29	N/A	0.20	-	-	-	-	-	-	-	-	2.03%	3.49	1.50	1.79	2.17	4.00%	4.84	3.0%	3.68	2.7%	3.16	1.0%	1.22	5.3%	6.37	0.4%	0.75	0.00%	-	\$146.86 / hr
1238	Non-Trade	SLN Office	Maintenance Specialist (Mechanical)	N/A	Category D - Home Office		1 Jan-13	31-Dec-13	1.00	75.00	64%	4.97	1%	3.64	N/A	N/A	N/A	N/A	7.50	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1239	Non-Trade	SLN Office	Maintenance Specialist (Elect./ISC)	N/A	Category D - Home Office		1 Jan-13	31-Dec-13	1.00	75.00	64%	4.97	1%	3.64	N/A	N/A	N/A	N/A	7.50	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1240	Non-Trade	SLN Office	Operations Specialist	N/A	Category D - Home Office		1 Jan-13	31-Dec-13	1.00	75.00	64%	4.97	1%	3.64	N/A	N/A	N/A	N/A	7.50	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1241	Non-Trade	SLN Office	Procedure Writer	N/A	Category D - Home Office		1 Jan-13	31-Dec-13	1.00	60.00	64%	3.97	1%	2.91	N/A	N/A	N/A	N/A	7.50	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1242	Non-Trade	SLN Office	Procedure Writer	N/A	Category D - Home Office		1 Jan-13	31-Dec-13	1.00	75.00	64%	4.97	1%	3.64	N/A	N/A	N/A	N/A	7.50	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1243	Non-Trade	SLN Office	Crane Specialist	N/A	Category D - Home Office		1 Jan-13	31-Dec-13	1.00	75.00	64%	4.97	1%	3.64	N/A	N/A	N/A	N/A	7.50	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1244	Non-Trade	N/A	Crane Technician - Subcontractor	N/A	Subcontractor		1 Jan-13	31-Dec-13	1.00	75.00	64%	4.97	1%	3.64	N/A	N/A	N/A	N/A	7.50	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1245	Non-Trade	N/A	Crane Technician - Subcontractor	N/A	Subcontractor		1 Jan-13	31-Dec-13	1.00	75.00	64%	4.97	1%	3.64	N/A	N/A	N/A	N/A	7.50	2,737.50	5	1,955.36	7	4	15	5	1,700	-	2,700	2.26	1.30	1.09	1.63	0.8%	0.67	1.1%	0.92	1.8%	1.0%	0.76	8.60%	7.19	1.84	\$103.13 / hr			
1246	Shop Trade	Nat'l Fab Shop	Fab Shop Metal Trades (UAW)	N/A	Scrumptymen		1 Jan-13	30-Apr-14	1	26.64	10%	2.66	0%	</																																	

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(3b) - Execution Phase Labour Schedules



A	B	C	D	E	F	G	H	I	J	K	AN
Ref.	Union	Wage Rate Schedule	Job Title			Effective Date		Normal Time / Overtime Multiplier	Wage Package Base Hourly [\$ / hr]	Total Rate Chargeable [\$ / hr]	
			Classification	Grade & Step	Occupation Code	Start [mm/dd/yy]	Finish [mm/dd/yy]				
TRADE LABOUR											
1			Boilermakers		Foreman	445865	Jan. 1, 2015	Dec. 31, 2015	1	68.67	\$ 68.67 / hr
2			Boilermakers		Foreman	445865	Jan. 1, 2015	Dec. 31, 2015	1.5	103.01	\$ 103.01 / hr
10			Boilermakers		Subforeman	445855	Jan. 1, 2015	Dec. 31, 2015	1	65.20	\$ 65.20 / hr
11			Boilermakers		Subforeman	445855	Jan. 1, 2015	Dec. 31, 2015	1.5	97.80	\$ 97.80 / hr
19			Boilermakers		Journeyman	445835	Jan. 1, 2015	Dec. 31, 2015	1	62.07	\$ 62.07 / hr
20			Boilermakers		Journeyman	445835	Jan. 1, 2015	Dec. 31, 2015	1.5	93.10	\$ 93.10 / hr
46			Boilermakers		Apprentice - 3rd Year	445835	Jan. 1, 2015	Dec. 31, 2015	1	51.56	\$ 51.56 / hr
47			Boilermakers		Apprentice - 3rd Year	445835	Jan. 1, 2015	Dec. 31, 2015	1.5	77.33	\$ 77.33 / hr
48			Boilermakers		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1	71.47	\$ 71.47 / hr
49			Boilermakers		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1.5	107.06	\$ 107.06 / hr
50			Boilermakers		Training - Boilermakers		Jan. 1, 2015	Dec. 31, 2015	1	61.39	\$ 61.39 / hr
51			Boilermakers		Training - Boilermakers		Jan. 1, 2015	Dec. 31, 2015	1.5	92.09	\$ 92.09 / hr
52			Boilermakers		PCD 009		Jan. 1, 2015	Dec. 31, 2015	1	67.49	\$ 67.49 / hr
67			Carpenters		Foreman	400065	Jan. 1, 2015	Dec. 31, 2015	1	57.59	\$ 57.59 / hr
68			Carpenters		Foreman	400065	Jan. 1, 2015	Dec. 31, 2015	1.5	86.39	\$ 86.39 / hr
74			Carpenters		Subforeman	400056	Jan. 1, 2015	Dec. 31, 2015	1	55.84	\$ 55.84 / hr
75			Carpenters		Subforeman	400057	Jan. 1, 2015	Dec. 31, 2015	1.5	83.76	\$ 83.76 / hr
76			Carpenters		Journeyman	400035	Jan. 1, 2015	Dec. 31, 2015	1	53.50	\$ 53.50 / hr
77			Carpenters		Journeyman	400035	Jan. 1, 2015	Dec. 31, 2015	1.5	80.25	\$ 80.25 / hr
89			Carpenters		Apprentice - 3rd Year	400015	Jan. 1, 2015	Dec. 31, 2015	1	45.00	\$ 45.00 / hr
90			Carpenters		Apprentice - 3rd Year	400015	Jan. 1, 2015	Dec. 31, 2015	1.5	67.51	\$ 67.51 / hr
91			Carpenters		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1	62.31	\$ 62.31 / hr
92			Carpenters		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1.5	93.31	\$ 93.31 / hr
93			Carpenters		Training - Carpenters		Jan. 1, 2015	Dec. 31, 2015	1	55.12	\$ 55.12 / hr
94			Carpenters		Training - Carpenters		Jan. 1, 2015	Dec. 31, 2015	1.5	82.68	\$ 82.68 / hr
100			Carpenters		PCD 009		Jan. 1, 2015	Dec. 31, 2015	1	58.31	\$ 58.31 / hr
95			Millwrights		Foreman	436365	Jan. 1, 2015	Dec. 31, 2015	1	68.91	\$ 68.91 / hr
96			Millwrights		Foreman	436365	Jan. 1, 2015	Dec. 31, 2015	1.5	103.37	\$ 103.37 / hr
97			Millwrights		Subforeman	436355	Jan. 1, 2015	Dec. 31, 2015	1	65.15	\$ 65.15 / hr
98			Millwrights		Subforeman	436355	Jan. 1, 2015	Dec. 31, 2015	1.5	97.72	\$ 97.72 / hr
101			Millwrights		Journeyman	436335	Jan. 1, 2015	Dec. 31, 2015	1	61.32	\$ 61.32 / hr
102			Millwrights		Journeyman	436335	Jan. 1, 2015	Dec. 31, 2015	1.5	91.98	\$ 91.98 / hr
113			Millwrights		Apprentice - 3rd Year	436315	Jan. 1, 2015	Dec. 31, 2015	1	51.65	\$ 51.65 / hr
114			Millwrights		Apprentice - 3rd Year	436315	Jan. 1, 2015	Dec. 31, 2015	1.5	77.48	\$ 77.48 / hr
115			Millwrights		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1	71.74	\$ 71.74 / hr
116			Millwrights		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1.5	107.46	\$ 107.46 / hr
117			Millwrights		Support Trades - JM		Jan. 1, 2015	Dec. 31, 2015	1	61.35	\$ 61.35 / hr
118			Millwrights		Support Trades - JM		Jan. 1, 2015	Dec. 31, 2015	1.5	91.87	\$ 91.87 / hr
119			Millwrights		Training - Millwrights		Jan. 1, 2015	Dec. 31, 2015	1	61.20	\$ 61.20 / hr
120			Millwrights		Training - Millwrights		Jan. 1, 2015	Dec. 31, 2015	1.5	91.80	\$ 91.80 / hr
121			Millwrights		PCD 009		Jan. 1, 2015	Dec. 31, 2015	1	67.29	\$ 67.29 / hr

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(3b) - Execution Phase Labour Schedules

Ref.	Union	Wage Rate Schedule	Job Title			Effective Date		Normal Time / Overtime Multiplier	Wage Package Base Hourly [\$ / hr]	Total Rate Chargeable [\$ / hr]
			Classification	Grade & Step	Occupation Code	Start [mm/dd/yy]	Finish [mm/dd/yy]			
134			Electricians		Foreman	410165	Jan. 1, 2015	Dec. 31, 2015	1	\$ 71.67 / hr
135			Electricians		Foreman	410165	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 107.50 / hr
136			Electricians		Subforeman	410155	Jan. 1, 2015	Dec. 31, 2015	1	\$ 69.14 / hr
137			Electricians		Subforeman	410155	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 103.71 / hr
140			Electricians		Journeyman	410135	Jan. 1, 2015	Dec. 31, 2015	1	\$ 64.07 / hr
141			Electricians		Journeyman	410135	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 96.11 / hr
155			Electricians		Apprentice - 3rd Year	410115	Jan. 1, 2015	Dec. 31, 2015	1	\$ 43.42 / hr
156			Electricians		Apprentice - 3rd Year	410115	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 65.13 / hr
157			Electricians		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1	\$ 74.61 / hr
158			Electricians		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 111.77 / hr
159			Electricians		Support Trades - (temp power)		Jan. 1, 2015	Dec. 31, 2015	1	\$ 64.10 / hr
160			Electricians		Support Trades - (temp power)		Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 96.00 / hr
161			Electricians		Training - Electricians		Jan. 1, 2015	Dec. 31, 2015	1	\$ 62.61 / hr
162			Electricians		Training - Electricians		Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 93.91 / hr
163			Electricians		PCD 009		Jan. 1, 2015	Dec. 31, 2015	1	\$ 68.84 / hr
167			Ironworkers		Foreman	445065	Jan. 1, 2015	Dec. 31, 2015	1	\$ 67.04 / hr
168			Ironworkers		Foreman	445065	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 100.57 / hr
173			Ironworkers		Subforeman	445055	Jan. 1, 2015	Dec. 31, 2015	1	\$ 63.45 / hr
174			Ironworkers		Subforeman	445055	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 95.17 / hr
176			Ironworkers		Journeyman	445035	Jan. 1, 2015	Dec. 31, 2015	1	\$ 59.85 / hr
177			Ironworkers		Journeyman	445035	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 89.77 / hr
185			Ironworkers		Apprentice - 3rd Year	445015	Jan. 1, 2015	Dec. 31, 2015	1	\$ 47.87 / hr
186			Ironworkers		Apprentice - 3rd Year	445015	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 71.80 / hr
187			Ironworkers		Support Trades - JM		Jan. 1, 2015	Dec. 31, 2015	1	\$ 59.87 / hr
188			Ironworkers		Support Trades - JM		Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 89.66 / hr
189			Ironworkers		Training - Ironworkers		Jan. 1, 2015	Dec. 31, 2015	1	\$ 59.04 / hr
190			Ironworkers		Training - Ironworkers		Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 88.56 / hr
191			Ironworkers		PCD 009		Jan. 1, 2015	Dec. 31, 2015	1	\$ 64.91 / hr
196			Insulators		Foreman	445665	Jan. 1, 2015	Dec. 31, 2015	1	\$ 63.24 / hr
197			Insulators		Foreman	445665	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 94.86 / hr
200			Insulators		Subforeman	445655	Jan. 1, 2015	Dec. 31, 2015	1	\$ 60.13 / hr
201			Insulators		Subforeman	445655	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 90.19 / hr
202			Insulators		Journeyman	445635	Jan. 1, 2015	Dec. 31, 2015	1	\$ 58.26 / hr
203			Insulators		Journeyman	445635	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 87.39 / hr
217			Insulators		Apprentice - 3rd Year	445615	Jan. 1, 2015	Dec. 31, 2015	1	\$ 43.91 / hr
218			Insulators		Apprentice - 3rd Year	445615	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 65.87 / hr
219			Insulators		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1	\$ 66.78 / hr
220			Insulators		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 94.40 / hr
221			Insulators		Training - Insulators		Jan. 1, 2015	Dec. 31, 2015	1	\$ 58.06 / hr
222			Insulators		Training - Insulators		Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 87.09 / hr
223			Insulators		PCD 009		Jan. 1, 2015	Dec. 31, 2015	1	\$ 62.73 / hr
538			Painters		Foreman	405765	Jan. 1, 2015	Dec. 31, 2015	1	\$ 57.39 / hr
539			Painters		Foreman	405765	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 86.08 / hr

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(3b) - Execution Phase Labour Schedules

A	B	C	D	E	F	G	H	I	J	K	AN
Ref.	Union	Wage Rate Schedule	Job Title			Effective Date		Normal Time / Overtime Multiplier	Wage Package Base Hourly [\$ / hr]	Total Rate Chargeable [\$ / hr]	
			Classification	Grade & Step	Occupation Code	Start [mm/dd/yy]	Finish [mm/dd/yy]				
542			Painters		Subforeman	405755	Jan. 1, 2015	Dec. 31, 2015	1	55.26	\$ 55.26 / hr
543			Painters		Subforeman	405755	Jan. 1, 2015	Dec. 31, 2015	1.5	82.89	\$ 82.89 / hr
544			Painters		Journeyman	405735	Jan. 1, 2015	Dec. 31, 2015	1	53.74	\$ 53.74 / hr
545			Painters		Journeyman	405735	Jan. 1, 2015	Dec. 31, 2015	1.5	80.61	\$ 80.61 / hr
572			Painters		Apprentice - 3rd Year	405715	Jan. 1, 2015	Dec. 31, 2015	1	45.00	\$ 45.00 / hr
573			Painters		Apprentice - 3rd Year	405715	Jan. 1, 2015	Dec. 31, 2015	1.5	67.49	\$ 67.49 / hr
574			Painters		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1	60.76	\$ 60.76 / hr
575			Painters		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1.5	85.65	\$ 85.65 / hr
576			Painters		Training - Painters		Jan. 1, 2015	Dec. 31, 2015	1	54.09	\$ 54.09 / hr
577			Painters		Training - Painters		Jan. 1, 2015	Dec. 31, 2015	1.5	72.08	\$ 72.08 / hr
680			Pipefitter		Foreman	450065	Jan. 1, 2015	Dec. 31, 2015	1	67.11	\$ 67.11 / hr
681			Pipefitter		Foreman	450065	Jan. 1, 2015	Dec. 31, 2015	1.5	100.66	\$ 100.66 / hr
695			Pipefitter		Subforeman	450055	Jan. 1, 2015	Dec. 31, 2015	1	64.57	\$ 64.57 / hr
696			Pipefitter		Subforeman	450055	Jan. 1, 2015	Dec. 31, 2015	1.5	96.85	\$ 96.85 / hr
697			Pipefitter		Journeyman	450035	Jan. 1, 2015	Dec. 31, 2015	1	62.03	\$ 62.03 / hr
698			Pipefitter		Journeyman	450035	Jan. 1, 2015	Dec. 31, 2015	1.5	93.04	\$ 93.04 / hr
740			Pipefitter		Apprentice 3rd Period	450015	Jan. 1, 2015	Dec. 31, 2015	1	44.26	\$ 44.26 / hr
741			Pipefitter		Apprentice 3rd Period	450015	Jan. 1, 2015	Dec. 31, 2015	1.5	66.39	\$ 66.39 / hr
742			Pipefitter		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1	69.93	\$ 69.93 / hr
743			Pipefitter		Support Trades - GF		Jan. 1, 2015	Dec. 31, 2015	1.5	104.74	\$ 104.74 / hr
744			Pipefitter		Training - Pipefitter		Jan. 1, 2015	Dec. 31, 2015	1	60.45	\$ 60.45 / hr
745			Pipefitter		Training - Pipefitter		Jan. 1, 2015	Dec. 31, 2015	1.5	90.67	\$ 90.67 / hr
746			Pipefitter		PCD 009		Jan. 1, 2015	Dec. 31, 2015	1	66.46	\$ 66.46 / hr
3913			Holder of Record		Holder of Record		Jan. 1, 2015	Dec. 31, 2015	1	61.00	\$ 61.00 / hr
3914			Holder of Record		Holder of Record		Jan. 1, 2015	Dec. 31, 2015	1.5	75.32	\$ 75.32 / hr
1105			Operators		Operators		Jan. 1, 2015	Dec. 31, 2015	1	61.79	\$ 61.79 / hr
1106			Operators		Operators		Jan. 1, 2015	Dec. 31, 2015	1.5	92.54	\$ 92.54 / hr
1486			Teamsters		Teamsters		Jan. 1, 2015	Dec. 31, 2015	1	50.80	\$ 50.80 / hr
1487			Teamsters		Teamsters		Jan. 1, 2015	Dec. 31, 2015	1.5	70.28	\$ 70.28 / hr
1488			Teamsters		Training - Teamsters		Jan. 1, 2015	Dec. 31, 2015	1	51.36	\$ 51.36 / hr
1489			Teamsters		Training - Teamsters		Jan. 1, 2015	Dec. 31, 2015	1.5	77.04	\$ 77.04 / hr
463			Labourers		Labourers		Jan. 1, 2015	Dec. 31, 2015	1	49.07	\$ 49.07 / hr
464			Labourers		Labourers		Jan. 1, 2015	Dec. 31, 2015	1.5	69.09	\$ 69.09 / hr
465			Labourers		PCD 009		Jan. 1, 2015	Dec. 31, 2015	1	53.72	\$ 53.72 / hr
NON-TRADE LABOUR									SLN		
									AECON		
904			Project Management				Jan. 1, 2015	Dec. 31, 2015	1	128.65	\$ 128.65 / hr
905			Project Director				Jan. 1, 2015	Dec. 31, 2015	1.5	128.65	\$ 128.65 / hr
912			Administrative Assistant				Jan. 1, 2015	Dec. 31, 2015	1	50.01	\$ 50.01 / hr
913			Administrative Assistant				Jan. 1, 2015	Dec. 31, 2015	1.5	57.63	\$ 57.63 / hr
1257			Training Coordinator				Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr
1258			Training Coordinator				Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr
901			PMT - PCD 009				Jan. 1, 2015	Dec. 31, 2015	1	68.05	\$ 68.05 / hr

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(3b) - Execution Phase Labour Schedules

Ref.	Union	Wage Rate Schedule	Job Title	Effective Date	Normal Time / Overtime Multiplier	Wage Package Base Hourly [\$ / hr]	Total Rate Chargeable [\$ / hr]
			Classification	Start [mm/dd/yy]	Finish [mm/dd/yy]		
902			PMT - PCD 008 - Credit	Jan. 1, 2016	Dec. 31, 2016	1	\$ 68.05 / hr
			Procurement				-
2119			Buyer	Jan. 1, 2015	Dec. 31, 2015	1	\$ 62.05 / hr
2120			Buyer	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 71.52 / hr
2134			Expeditor	Jan. 1, 2015	Dec. 31, 2015	1	\$ 64.07 / hr
2135			Expeditor	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 73.84 / hr
			Engineering				-
3770			Resident Engineer	Jan. 1, 2015	Dec. 31, 2015	1	\$ 80.22 / hr
3771			Resident Engineer	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 92.45 / hr
2431			Resident Engineer Lead (Mechanical) - Site	Jan. 1, 2015	Dec. 31, 2015	1	\$ 80.22 / hr
2432			Resident Engineer Lead (Mechanical) - Site	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 92.45 / hr
4135			Engineering (Electrical) - Site	Jan. 1, 2015	Dec. 31, 2015	1	\$ 80.22 / hr
4136			Engineering (Electrical) - Site	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 92.45 / hr
4137			Engineer (I&C) - Site	Jan. 1, 2015	Dec. 31, 2015	1	\$ 80.22 / hr
4138			Engineer (I&C) - Site	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 92.45 / hr
3292			Engineering (Civil) - Home Office	Jan. 1, 2015	Dec. 31, 2015	1	\$ 80.22 / hr
3293			Engineering (Civil) - Home Office	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 92.45 / hr
924			Engineering Manager	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 124.39 / hr
951			SNC- Design Team Lead	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 102.44 / hr
939			Lead Engineer (Mechanical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 102.44 / hr
945			Lead Engineer (Electrical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 102.44 / hr
948			Lead Engineer (I&C/HFE)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 102.44 / hr
942			Lead Engineer (Civil/ Structural)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 102.44 / hr
975			Senior Engineer (Mechanical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
981			Senior Engineer (Electrical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
984			Senior Engineer (I&C/ HFE)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
985			Senior Engineer (HFE)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
978			Senior Engineer (Civil/ Structural)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
987			Intermediate Engineer (Mechanical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
993			Intermediate Engineer (Electrical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
996			Intermediate Engineer (I&C/ HFE)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
990			Intermediate Engineer (Civil/ Structural)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 80.49 / hr
999			Junior Engineer (Mechanical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 48.29 / hr
1005			Junior Engineer (Electrical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 48.29 / hr
1008			Junior Engineer (I&C/ HFE)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 48.29 / hr
1002			Junior Engineer (Civil/ Structural)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 48.29 / hr
1011			Designer/ Drafter (Mechanical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 48.29 / hr
1017			Designer/ Drafter (Electrical)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 48.29 / hr
1020			Designer/ Drafter (I&C/ HFE)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 48.29 / hr
1014			Designer/ Drafter (Civil/ Structural)	Jan. 1, 2015	Dec. 31, 2015	1.00	\$ 48.29 / hr
			Project Services - Project Controls				-
910			Project Controls Manager	Jan. 1, 2015	Dec. 31, 2015	1	\$ 80.22 / hr
911			Project Controls Manager	Jan. 1, 2015	Dec. 31, 2015	1.5	\$ 92.45 / hr

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(3b) - Execution Phase Labour Schedules



A	B	C	D	E	F	G	H	I	J	K	AN
Ref.	Union	Wage Rate Schedule	Job Title	Effective Date	Normal Time / Overtime Multiplier	Wage Package Base Hourly [\$ / hr]	Total Rate Chargeable [\$ / hr]				
			Classification	Grade & Step	Occupation Code	Start [mm/dd/yy]	Finish [mm/dd/yy]				
1153			Report Analyst			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr	
1154			Report Analyst			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	
1150			Planner			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr	
1151			Planner			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	
			Project Services - Document Management								
1158			Document Control			Jan. 1, 2015	Dec. 31, 2015	1	48.43	\$ 48.43 / hr	
1159			Document Control			Jan. 1, 2015	Dec. 31, 2015	1.5	55.82	\$ 55.82 / hr	
			Project Services - Contracts Management								
1168			Contract / Risk Coordinator			Jan. 1, 2015	Dec. 31, 2015	1.0	62.05	\$ 62.05 / hr	
1169			Contract / Risk Coordinator			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	
			Project Services - Project Accounting								
1178			Project Accountant			Jan. 1, 2015	Dec. 31, 2015	1	80.22	\$ 80.22 / hr	
1179			Project Accountant			Jan. 1, 2015	Dec. 31, 2015	1.5	92.45	\$ 92.45 / hr	
1181			Timesheet / Payroll Clerk			Jan. 1, 2015	Dec. 31, 2015	1	48.43	\$ 48.43 / hr	
1182			Timesheet / Payroll Clerk			Jan. 1, 2015	Dec. 31, 2015	1.5	55.82	\$ 55.82 / hr	
			QA/QC								
1188			Quality Manager			Jan. 1, 2015	Dec. 31, 2015	1	80.22	\$ 80.22 / hr	
1189			Quality Manager			Jan. 1, 2015	Dec. 31, 2015	1.5	92.45	\$ 92.45 / hr	
1191			QA Specialist			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr	
1192			QA Specialist			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	
1194			QC Supervisor			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr	
1195			QC Supervisor			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	
1197			QC Inspector			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr	
1198			QC Inspector			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	
			Health, Safety, Security and Environment								
1200			HSE Manager			Jan. 1, 2015	Dec. 31, 2015	1	80.22	\$ 80.22 / hr	
1201			HSE Manager			Jan. 1, 2015	Dec. 31, 2015	1.5	92.45	\$ 92.45 / hr	
1203			HSE Advisor			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr	
1204			HSE Advisor			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	
			Construction Supervision (General Foremen and Superintendent)								
4090			Construction Manager			Jan. 1, 2015	Dec. 31, 2015	1	120.37	\$ 120.37 / hr	
4091			Construction Manager			Jan. 1, 2015	Dec. 31, 2015	1.5	120.37	\$ 120.37 / hr	
4303			Administrative Assistant			Jan. 1, 2015	Dec. 31, 2015	1	50.01	\$ 50.01 / hr	
4304			Administrative Assistant			Jan. 1, 2015	Dec. 31, 2015	1.5	57.63	\$ 57.63 / hr	
1174			Project Coordinators			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr	
1175			Project Coordinators			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	
2740			System Window Coordinator			Jan. 1, 2015	Dec. 31, 2015	1	80.22	\$ 80.22 / hr	
2741			System Window Coordinator			Jan. 1, 2015	Dec. 31, 2015	1.5	92.45	\$ 92.45 / hr	
			Commissioning (PMT)								
3226			Commissioning Manager / Lead			Jan. 1, 2015	Dec. 31, 2015	1	80.22	\$ 80.22 / hr	
3227			Commissioning Manager / Lead			Jan. 1, 2015	Dec. 31, 2015	1.5	92.45	\$ 92.45 / hr	
4261			Commissioning Coordinator (Mechanical)			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr	
4262			Commissioning Coordinator (Mechanical)			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr	

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(3b) - Execution Phase Labour Schedules

Ref.	Union	Wage Rate Schedule	Job Title			Effective Date		Normal Time / Overtime Multiplier	Wage Package Base Hourly [\$ / hr]	Total Rate Chargeable [\$ / hr]
			Classification	Grade & Step	Occupation Code	Start [mm/dd/yy]	Finish [mm/dd/yy]			
4263			Commissioning Coordinator (Electrical)			Jan. 1, 2015	Dec. 31, 2015	1	62.05	\$ 62.05 / hr
4264			Commissioning Coordinator (Electrical)			Jan. 1, 2015	Dec. 31, 2015	1.5	71.52	\$ 71.52 / hr
OTHERS - Proponent to insert as required										
1245	Non-Trade	N/A	Maintenance Authority	N/A		1-Jan-13	31-Dec-13	1	46.74	\$ 70.78 / hr
1246	Non-Trade	N/A	Maintenance Authority	N/A		1-Jan-13	31-Dec-13	1.5	70.11	\$ 106.04 / hr
1247	Non-Trade	N/A	Maintenance Authority	N/A		1-Jan-13	31-Dec-13	2	93.48	\$ 139.89 / hr
1248	Non-Trade	N/A	Holder of Record	N/A		1-Jan-13	31-Dec-13	1	46.74	\$ 70.78 / hr
1249	Non-Trade	N/A	Holder of Record	N/A		1-Jan-13	31-Dec-13	1.5	70.11	\$ 106.04 / hr
1250	Non-Trade	N/A	Holder of Record	N/A		1-Jan-13	31-Dec-13	2	93.48	\$ 139.89 / hr
1251	Non-Trade	N/A	Work Protection Coordinator	N/A		1-Jan-13	31-Dec-13	1	46.74	\$ 70.78 / hr
1252	Non-Trade	N/A	Work Protection Coordinator	N/A		1-Jan-13	31-Dec-13	1.5	70.11	\$ 106.04 / hr
1253	Non-Trade	N/A	Work Protection Coordinator	N/A		1-Jan-13	31-Dec-13	2	93.48	\$ 139.89 / hr
1254	Non-Trade	N/A	Technical Advisor	N/A		1-Jan-13	31-Dec-13	1	54.72	\$ 80.47 / hr
1255	Non-Trade	N/A	Technical Advisor	N/A		1-Jan-13	31-Dec-13	1.5	82.08	\$ 120.58 / hr
1256	Non-Trade	N/A	Technical Advisor	N/A		1-Jan-13	31-Dec-13	2	109.45	\$ 160.69 / hr
	Non-Trade	N/A	Training Coordinator	N/A		1-Jan-13	31-Dec-13	1	42.33	\$ 59.29 / hr
	Non-Trade	N/A	Training Coordinator	N/A		1-Jan-13	31-Dec-13	1.5	63.50	\$ 86.10 / hr
1259	Non-Trade	N/A	Training Coordinator	N/A		1-Jan-13	31-Dec-13	2	84.67	\$ 114.73 / hr
1260	Non-Trade	N/A	Commissioning Manager	N/A		1-Jan-13	31-Dec-13	1	72.28	\$ 101.07 / hr
1261	Non-Trade	N/A	Commissioning Manager	N/A		1-Jan-13	31-Dec-13	1.5	108.41	\$ 146.86 / hr
1262	Non-Trade	N/A	Commissioning Manager	N/A		1-Jan-13	31-Dec-13	2	144.55	\$ 195.76 / hr
1263	Non-Trade	N/A	Commissioning Leads	N/A		1-Jan-13	31-Dec-13	1	54.72	\$ 76.98 / hr
1264	Non-Trade	N/A	Commissioning Leads	N/A		1-Jan-13	31-Dec-13	1.5	82.08	\$ 115.34 / hr
1265	Non-Trade	N/A	Commissioning Leads	N/A		1-Jan-13	31-Dec-13	2	109.45	\$ 153.69 / hr
1266	Non-Trade	N/A	Subject Matter Experts	N/A		1-Jan-13	31-Dec-13	1	72.28	\$ 97.84 / hr
1267	Non-Trade	N/A	Subject Matter Experts	N/A		1-Jan-13	31-Dec-13	1.5	108.41	\$ 142.02 / hr
1268	Non-Trade	SLN Office	Maintenance Specialist (Mechanical)	N/A	Category D - Home Office	1-Jan-13	31-Dec-13	1.00	75.00	\$ 103.13 / hr
1269	Non-Trade	SLN Office	Maintenance Specialist (Elect./I&C)	N/A	Category D - Home Office	1-Jan-13	31-Dec-13	1.00	75.00	\$ 103.13 / hr
1270	Non-Trade	SLN Office	Operations Specialist	N/A	Category D - Home Office	1-Jan-13	31-Dec-13	1.00	75.00	\$ 103.13 / hr
1271	Non-Trade	SLN Office	Procedure Writer	N/A	Category D - Home Office	1-Jan-13	31-Dec-13	1.00	60.00	\$ 82.50 / hr
1272	Non-Trade	SLN Office	Passport Specialist	N/A	Category D - Home Office	1-Jan-13	31-Dec-13	1.00	75.00	\$ 103.13 / hr
1273	Non-Trade	SLN Office	Crane Specialist	N/A	Category D - Home Office	1-Jan-13	31-Dec-13	1.00	75.00	\$ 103.13 / hr
1274	Non-Trade	N/A	Crane Technician - Subcontractor	N/A	Subcontractor	1-Jan-13	31-Dec-13	1.00		\$ 110.00 / hr
1275	Non-Trade	N/A	Crane Engineer - Subcontractor	N/A	Subcontractor	1-Jan-13	31-Dec-13	1.00		\$ 150.00 / hr
1276	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	5-Jun-13	30-Apr-14	1	26.64	\$ 40.88 / hr
1277	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	1-May-14	30-Apr-15	1	27.24	\$ 41.99 / hr
1278	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	1-May-15	30-Apr-16	1	27.89	\$ 43.17 / hr
1279	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	5-Jun-13	30-Apr-14	1.5	39.96	\$ 57.07 / hr
1280	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	1-May-14	30-Apr-15	1.5	40.86	\$ 58.54 / hr
1281	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	1-May-15	30-Apr-16	1.5	41.84	\$ 60.11 / hr
1282	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	5-Jun-13	30-Apr-14	2	53.28	\$ 73.25 / hr
1283	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	1-May-14	30-Apr-15	2	54.48	\$ 75.09 / hr
1284	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Journeyman	1-May-15	30-Apr-16	2	55.78	\$ 77.05 / hr

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(3b) - Execution Phase Labour Schedules



A	B	C	D	E	F	G	H	I	J	K	L
Ref.	Union	Wage Rate Schedule	Job Title			Effective Date		Normal Time / Overtime Multiplier	Wage Package Base Hourly [\$ / hr]	Total Rate Chargeable [\$ / hr]	
			Classification	Grade & Step	Occupation Code		Start [mm/dd/yy]	Finish [mm/dd/yy]			
1285	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		5-Jun-13	30-Apr-14	1	32.03	\$ 47.43 / hr
1286	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		1-May-14	30-Apr-15	1	32.67	\$ 48.59 / hr
1287	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		1-May-15	30-Apr-16	1	33.32	\$ 49.77 / hr
1288	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		5-Jun-13	30-Apr-14	1.5	48.05	\$ 66.89 / hr
1289	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		1-May-14	30-Apr-15	1.5	49.01	\$ 68.44 / hr
1290	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		1-May-15	30-Apr-16	1.5	49.99	\$ 70.01 / hr
1291	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		5-Jun-13	30-Apr-14	2	64.06	\$ 86.34 / hr
1292	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		1-May-14	30-Apr-15	2	65.34	\$ 88.28 / hr
1293	Shop Trade	Natl Fab Shop	Fab Shop Metal Trades (UA)	N/A	Foreman		1-May-15	30-Apr-16	2	66.65	\$ 90.25 / hr
1294	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		5-Jun-13	30-Apr-14	1	45.23	\$ 62.06 / hr
1295	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		1-May-14	30-Apr-15	1	46.13	\$ 63.30 / hr
1296	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		1-May-15	30-Apr-16	1	47.06	\$ 64.56 / hr
1297	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		5-Jun-13	30-Apr-14	1.5	55.25	\$ 75.81 / hr
1298	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		1-May-14	30-Apr-15	1.5	56.36	\$ 77.32 / hr
1299	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		1-May-15	30-Apr-16	1.5	57.48	\$ 78.87 / hr
1300	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		5-Jun-13	30-Apr-14	2	73.67	\$ 101.07 / hr
1301	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		1-May-14	30-Apr-15	2	75.14	\$ 103.10 / hr
1302	Non-Trade	Natl Fab Shop	Fab Shop Metal Trades (UA) - Superintendent	N/A	Superintendent		1-May-15	30-Apr-16	2	76.65	\$ 105.16 / hr
1303	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		5-Jun-13	30-Apr-14	1	39.12	\$ 60.28 / hr
1304	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		1-May-14	30-Apr-15	1	39.98	\$ 61.90 / hr
1305	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		1-May-15	30-Apr-16	1	40.84	\$ 63.65 / hr
1306	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		5-Jun-13	30-Apr-14	1.5	58.68	\$ 84.04 / hr
1307	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		1-May-14	30-Apr-15	1.5	59.97	\$ 86.19 / hr
1308	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		1-May-15	30-Apr-16	1.5	61.26	\$ 88.45 / hr
1309	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		5-Jun-13	30-Apr-14	2	78.24	\$ 107.80 / hr
1310	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		1-May-14	30-Apr-15	2	79.96	\$ 110.47 / hr
1311	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Journeyman		1-May-15	30-Apr-16	2	81.68	\$ 113.26 / hr
1312	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		5-Jun-13	30-Apr-14	1	43.81	\$ 65.97 / hr
1313	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		1-May-14	30-Apr-15	1	44.78	\$ 67.73 / hr
1314	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		1-May-15	30-Apr-16	1	45.74	\$ 69.60 / hr
1315	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		5-Jun-13	30-Apr-14	1.5	65.72	\$ 92.58 / hr
1316	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		1-May-14	30-Apr-15	1.5	67.17	\$ 94.93 / hr
1317	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		1-May-15	30-Apr-16	1.5	68.61	\$ 97.38 / hr
1318	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		5-Jun-13	30-Apr-14	2	87.62	\$ 119.19 / hr
1319	Shop Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		1-May-14	30-Apr-15	2	89.56	\$ 122.13 / hr
1320	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA)	N/A	Foreman		1-May-15	30-Apr-16	2	91.48	\$ 125.17 / hr
1321	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		5-Jun-13	30-Apr-14	1	54.72	\$ 75.08 / hr
1322	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		1-May-14	30-Apr-15	1	55.81	\$ 76.58 / hr
1323	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		1-May-15	30-Apr-16	1	56.93	\$ 78.11 / hr
1324	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		5-Jun-13	30-Apr-14	1.5	75.57	\$ 103.69 / hr
1325	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		1-May-14	30-Apr-15	1.5	77.25	\$ 105.98 / hr
1326	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		1-May-15	30-Apr-16	1.5	78.90	\$ 108.25 / hr
1327	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		5-Jun-13	30-Apr-14	2	100.76	\$ 138.25 / hr

8
NA

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(3b) - Execution Phase Labour Schedules

A	B	C	D	E	F	G	H	I	J	K	AN
Ref.	Union	Wage Rate Schedule	Job Title			Effective Date		Normal Time / Overtime Multiplier	Wage Package Base Hourly \$ / hr	Total Rate Chargeable \$ / hr	
			Classification	Grade & Step	Occupation Code	Start (mm/dd/yy)	Finish (mm/dd/yy)				
1328	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		1-May-14	30-Apr-15	2	102.99	\$ 141.31 / hr
1329	Non-Trade	Natl Fab Shop	Fab Shop Pipefitter (UA) - Superintendent	N/A	Superintendent		1-May-15	30-Apr-16	2	105.20	\$ 144.34 / hr

- Notes:
1. JV Staff 1.5x applies after 44 hours per week.
 2. 2015 labour rates were used for Execution Phase Labour Schedules.

JAN

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(4) - Revised Definition Phase Target Cost



Ref.	Labour Schedule Ref.	Resources					Definition Phase		Applicable Adjustable Cost Index
		Position	Grade	Effective Date	Normal / Overtime	Rate	Hours	Total	
DEFINITION PHASE DELIVERABLES							274,089 hrs	\$ 20,709,085	
1	Engineering Change Control / Engineered Tooling Documentation						119,499 hrs	\$ 8,449,203	
	924	SNC - Engineering Manager	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	3,396 hrs	\$ 396,959	Index 1d.1
	951	SNC- Design Team Lead	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	3,396 hrs	\$ 326,907	Index 1d.1
	927	SNC - Section Manager (Mechanical)	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	751 hrs	\$ 72,268	Index 1d.1
	933	SNC - Section Manager (Electrical)	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	1,738 hrs	\$ 167,263	Index 1d.1
	936	SNC - Section Manager (I&C/HFE)	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	1,609 hrs	\$ 154,900	Index 1d.1
	930	SNC - Section Manager (Civil/ Structural)	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	151 hrs	\$ 14,501	Index 1d.1
	939	SNC - Lead Engineer (Mechanical)	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	1,126 hrs	\$ 108,339	Index 1d.1
	945	SNC - Lead Engineer (Electrical)	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	2,607 hrs	\$ 250,895	Index 1d.1
	948	SNC - Lead Engineer (I&C/HFE)	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	2,414 hrs	\$ 232,349	Index 1d.1
	942	SNC - Lead Engineer (Civil/ Structural)	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	226 hrs	\$ 21,752	Index 1d.1
	960	SNC- Consultant (Mechanical)	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	1,073 hrs	\$ 125,355	Index 1d.1
	966	SNC- Consultant (Electrical)	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	6,793 hrs	\$ 793,918	Index 1d.1
	969	SNC- Consultant (I&C)	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	8,223 hrs	\$ 961,059	Index 1d.1
	975	SNC - Senior Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	1,876 hrs	\$ 141,873	Index 1d.1
	981	SNC - Senior Engineer (Electrical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	4,345 hrs	\$ 328,553	Index 1d.1
	984	SNC - Senior Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	4,023 hrs	\$ 304,267	Index 1d.1
	978	SNC - Senior Engineer (Civil/ Structural)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	377 hrs	\$ 28,485	Index 1d.1
	987	SNC - Intermediate Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	6,141 hrs	\$ 464,441	Index 1d.1
	993	SNC - Intermediate Engineer (Electrical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	7,391 hrs	\$ 558,968	Index 1d.1
	996	SNC - Intermediate Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	5,293 hrs	\$ 400,290	Index 1d.1
	990	SNC - Intermediate Engineer (Civil/ Structural)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	988 hrs	\$ 74,723	Index 1d.1
	999	SNC - Junior Engineer (Mechanical)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	4,642 hrs	\$ 210,635	Index 1d.1
	1005	SNC - Junior Engineer (Electrical)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	9,461 hrs	\$ 429,289	Index 1d.1
	1008	SNC - Junior Engineer (I&C/ HFE)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	12,510 hrs	\$ 567,653	Index 1d.1
	1002	SNC - Junior Engineer (Civil/ Structural)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	992 hrs	\$ 45,024	Index 1d.1
	1011	SNC - Designer/ Drafter (Mechanical)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	2,650 hrs	\$ 120,233	Index 1d.1
	1017	SNC - Designer/ Drafter (Electrical)	Category B- Home Office	01-Jan-2013	1x	\$ 45.38	9,551 hrs	\$ 433,365	Index 1d.1
	1020	SNC - Designer/ Drafter (I&C/ HFE)	Category B- Home Office	01-Jan-2013	1x	\$ 45.38	15,398 hrs	\$ 698,665	Index 1d.1
	1014	SNC - Designer/ Drafter (Civil/ Structural)	Category B- Home Office	01-Jan-2013	1x	\$ 45.38	359 hrs	\$ 16,272	Index 1d.1
2	Project Management Plan - Definition Phase						1,053 hrs	\$ 91,266	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	176 hrs	\$ 21,193	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	176 hrs	\$ 17,453	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	44 hrs	\$ 4,363	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	176 hrs	\$ 7,979	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	173 hrs	\$ 17,155	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	132 hrs	\$ 7,667	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	176 hrs	\$ 15,455	Index 1d.1
3	Project Management Plan - Execution Phase						6,170 hrs	\$ 484,720	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	473 hrs	\$ 56,957	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	473 hrs	\$ 46,906	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	473 hrs	\$ 46,906	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	473 hrs	\$ 21,443	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	636 hrs	\$ 63,050	Index 1d.1
	1257	Training Coordinator	0	01-Jan-2013	1x	\$ 59.29	473 hrs	\$ 28,045	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	580 hrs	\$ 43,526	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	440 hrs	\$ 38,638	Index 1d.1
	1194	QC. Coordinator	0	01-Jan-2013	1x	\$ 75.08	580 hrs	\$ 43,526	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	580 hrs	\$ 33,671	Index 1d.1
	1200	EHS Manager	0	01-Jan-2013	1x	\$ 99.16	88 hrs	\$ 8,727	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	286 hrs	\$ 21,474	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	308 hrs	\$ 17,890	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	308 hrs	\$ 13,963	Index 1d.1
4	Execution Phase Risk Register						3,243 hrs	\$ 265,205	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	378 hrs	\$ 45,566	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	378 hrs	\$ 37,525	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	378 hrs	\$ 37,525	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	378 hrs	\$ 17,154	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	378 hrs	\$ 30,453	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	378 hrs	\$ 28,412	Index 1d.1

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(4) - Revised Definition Phase Target Cost



Ref.	Labour Schedule Ref.	Resources					Definition Phase		Applicable Adjustable Cost Index
		Position	Grade	Effective Date	Normal / Overtime	Rate	Hours	Total	
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	198 hrs	\$ 11,501	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	378 hrs	\$ 33,228	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	198 hrs	\$ 8,976	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	198 hrs	\$ 14,867	Index 1d.1
5	Maintenance Procedures						4,342 hrs	\$ 365,155	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	132 hrs	\$ 15,895	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	132 hrs	\$ 13,090	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	132 hrs	\$ 13,090	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	132 hrs	\$ 5,984	Index 1d.1
	1171	Scope Lead	0	01-Jan-2013	1x	\$ 99.16	624 hrs	\$ 61,850	Index 1d.1
	1174	Project Coordinator . / Assessor	0	01-Jan-2013	1x	\$ 75.08	568 hrs	\$ 42,617	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	568 hrs	\$ 45,679	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	568 hrs	\$ 42,617	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	568 hrs	\$ 49,843	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	176 hrs	\$ 10,223	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	176 hrs	\$ 7,979	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	568 hrs	\$ 56,287	Index 1d.1
6	Modification Installation Workplans						30,455 hrs	\$ 2,506,155	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	473 hrs	\$ 56,957	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	473 hrs	\$ 46,906	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	473 hrs	\$ 46,906	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	473 hrs	\$ 21,443	Index 1d.1
	1171	Scope Lead	0	01-Jan-2013	1x	\$ 99.16	7,480 hrs	\$ 741,768	Index 1d.1
	1174	Project Coordinator . / Assessor	0	01-Jan-2013	1x	\$ 75.08	7,480 hrs	\$ 561,625	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	5,339 hrs	\$ 429,616	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	5,060 hrs	\$ 379,922	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	473 hrs	\$ 41,536	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	519 hrs	\$ 30,157	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	935 hrs	\$ 42,387	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	814 hrs	\$ 61,118	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	462 hrs	\$ 45,815	Index 1d.1
7	Commissioning Requirements						9,111 hrs	\$ 781,406	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	473 hrs	\$ 56,957	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	473 hrs	\$ 46,906	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	473 hrs	\$ 46,906	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	473 hrs	\$ 21,443	Index 1d.1
	1260	Commissioning Manager	0	01-Jan-2013	1x	\$ 101.07	3,242 hrs	\$ 327,653	Index 1d.1
	1263	Commissioning Leads	0	01-Jan-2013	1x	\$ 76.98	1,334 hrs	\$ 102,714	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	473 hrs	\$ 41,536	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	519 hrs	\$ 30,157	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	946 hrs	\$ 42,885	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	231 hrs	\$ 17,344	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	473 hrs	\$ 46,906	Index 1d.1
8	Initial Work Assessment(s)						19,569 hrs	\$ 1,503,707	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	378 hrs	\$ 45,566	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	378 hrs	\$ 37,525	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	264 hrs	\$ 26,180	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	378 hrs	\$ 17,154	Index 1d.1
	1174	Project Coordinator . / Assessor	0	01-Jan-2013	1x	\$ 75.08	3,784 hrs	\$ 284,116	Index 1d.1
	1138	Estimating Manager	0	01-Jan-2013	1x	\$ 99.16	264 hrs	\$ 26,180	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	1,135 hrs	\$ 91,359	Index 1d.1
	1266	Subject Matter Experts	0	01-Jan-2013	1x	\$ 97.84	1,135 hrs	\$ 111,075	Index 1d.1
	1200	EHS Manager	0	01-Jan-2013	1x	\$ 99.16	568 hrs	\$ 56,287	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	704 hrs	\$ 69,813	Index 1d.1
	1194	QC. Coordinator	0	01-Jan-2013	1x	\$ 75.08	568 hrs	\$ 42,617	Index 1d.1
	1171	Scope Lead	0	01-Jan-2013	1x	\$ 99.16	1,135 hrs	\$ 112,574	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	3,410 hrs	\$ 256,035	Index 1d.1
	1150	P-6 Planner	0	01-Jan-2013	1x	\$ 75.08	1,135 hrs	\$ 85,235	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	704 hrs	\$ 61,820	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	415 hrs	\$ 24,087	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	2,860 hrs	\$ 129,654	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	352 hrs	\$ 26,429	Index 1d.1
9a	Cost Estimate - AACE Class 4						3,819 hrs	\$ 305,748	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	132 hrs	\$ 15,895	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	132 hrs	\$ 13,090	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	132 hrs	\$ 13,090	Index 1d.1

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(4) - Revised Definition Phase Target Cost



Ref.	Labour Schedule Ref.	Position	Resources				Definition Phase		Applicable Adjustable Cost Index
			Grade	Effective Date	Normal / Overtime	Rate	Hours	Total	
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	88 hrs	\$ 3,989	Index 1d.1
	916	Procurement Manager	0	01-Jan-2013	2x	\$ 91.33	66 hrs	\$ 6,028	Index 1d.1
	917	Buyer / Materials Coordinator	0	01-Jan-2013	1x	\$ 58.08	132 hrs	\$ 7,667	Index 1d.1
	1138	Estimating Manager	0	01-Jan-2013	1x	\$ 99.16	520 hrs	\$ 51,597	Index 1d.1
	1141	M or E Estimators or risk coordinator	0	01-Jan-2013	1x	\$ 75.08	1,561 hrs	\$ 117,198	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	352 hrs	\$ 15,957	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	352 hrs	\$ 28,328	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	176 hrs	\$ 17,453	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	176 hrs	\$ 15,455	Index 1d.1
9b Cost Estimate - AACE Class 3							5,704 hrs	\$ 459,643	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	189 hrs	\$ 22,783	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	199 hrs	\$ 19,744	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	88 hrs	\$ 8,727	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	132 hrs	\$ 5,984	Index 1d.1
	916	Procurement Manager	0	01-Jan-2013	2x	\$ 91.33	132 hrs	\$ 12,056	Index 1d.1
	917	Buyer / Materials Coordinator	0	01-Jan-2013	1x	\$ 58.08	264 hrs	\$ 15,334	Index 1d.1
	1138	Estimating Manager	0	01-Jan-2013	1x	\$ 99.16	757 hrs	\$ 75,049	Index 1d.1
	1141	M or E Estimators or risk coordinator	0	01-Jan-2013	1x	\$ 75.08	2,271 hrs	\$ 170,470	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	352 hrs	\$ 15,957	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	528 hrs	\$ 42,492	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	132 hrs	\$ 13,090	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	660 hrs	\$ 57,957	Index 1d.1
9c Cost Estimate - AACE Class 2							9,249 hrs	\$ 751,124	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	264 hrs	\$ 31,790	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	264 hrs	\$ 26,180	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	264 hrs	\$ 26,180	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	264 hrs	\$ 11,968	Index 1d.1
	916	Procurement Manager	0	01-Jan-2013	2x	\$ 91.33	264 hrs	\$ 24,112	Index 1d.1
	917	Buyer / Materials Coordinator	0	01-Jan-2013	1x	\$ 58.08	352 hrs	\$ 20,445	Index 1d.1
	1138	Estimating Manager	0	01-Jan-2013	1x	\$ 99.16	1,135 hrs	\$ 112,574	Index 1d.1
	1141	M or E Estimators or risk coordinator	0	01-Jan-2013	1x	\$ 75.08	3,406 hrs	\$ 255,704	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	528 hrs	\$ 23,936	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	1,056 hrs	\$ 84,985	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	506 hrs	\$ 50,178	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	946 hrs	\$ 83,071	Index 1d.1
9d Execution Phase Target Cost and Schedule							12,895 hrs	\$ 1,070,647	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	662 hrs	\$ 79,740	Index 1d.1
	909	Deputy Project Manager	0	01-Jan-2013	2x	\$ 120.62	662 hrs	\$ 79,879	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	1,324 hrs	\$ 131,337	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	662 hrs	\$ 30,020	Index 1d.1
	916	Procurement Manager	0	01-Jan-2013	2x	\$ 91.33	286 hrs	\$ 26,121	Index 1d.1
	917	Buyer / Materials Coordinator	0	01-Jan-2013	1x	\$ 58.08	286 hrs	\$ 16,612	Index 1d.1
	1138	Estimating Manager	0	01-Jan-2013	1x	\$ 99.16	757 hrs	\$ 75,049	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	1,514 hrs	\$ 121,812	Index 1d.1
	1266	Subject Matter Experts	0	01-Jan-2013	1x	\$ 97.84	757 hrs	\$ 74,050	Index 1d.1
	1200	EHS Manager	0	01-Jan-2013	1x	\$ 99.16	352 hrs	\$ 34,907	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	352 hrs	\$ 34,907	Index 1d.1
	1171	Scope Lead	0	01-Jan-2013	1x	\$ 99.16	757 hrs	\$ 75,049	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	757 hrs	\$ 56,823	Index 1d.1
	1150	P-6 Planner	0	01-Jan-2013	1x	\$ 75.08	946 hrs	\$ 71,029	Index 1d.1
	1257	Training Coordinator	0	01-Jan-2013	1x	\$ 59.29	176 hrs	\$ 10,435	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	378 hrs	\$ 33,228	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	660 hrs	\$ 38,335	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	1,320 hrs	\$ 59,840	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	286 hrs	\$ 21,474	Index 1d.1
9e NEW - Staff to prepare Crane Safety and Reliability Assessment Plan							1,387 hrs	\$ 177,883	
	1273	Crane Specialist	Category D - Home Office	01-Jan-2013	1x	\$ 103.13	347 hrs	\$ 35,750	Index 1d.1
	1274	Crane Technician - Subcontractor	Subcontractor	01-Jan-2013	1x	\$ 110.00	347 hrs	\$ 38,133	Index 1d.2
	1275	Crane Engineer - Subcontractor	Subcontractor	01-Jan-2013	1x	\$ 150.00	693 hrs	\$ 104,000	Index 1d.2
PCD 001 Condenser Struts							700 hrs	\$ 53,989	
	1174	Project Coordinator . / Assessor	0	01-Jan-2013	1x	\$ 75.08	336 hrs	\$ 25,227	Index 1d.1
	1171	Scope Lead	0	01-Jan-2013	1x	\$ 99.16	40 hrs	\$ 3,966	Index 1d.1
	1194	QC. Coordinator	0	01-Jan-2013	1x	\$ 75.08	96 hrs	\$ 7,208	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	40 hrs	\$ 3,512	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	20 hrs	\$ 1,983	Index 1d.1

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(4) - Revised Definition Phase Target Cost



Ref.	Labour Schedule Ref.	Resources					Definition Phase		Applicable Adjustable Cost Index
		Position	Grade	Effective Date	Normal / Overtime	Rate	Hours	Total	
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	48 hrs	\$ 3,604	Index 1d.1
	1210	AECON - Boilermaker - GF	0	01-Jan-2013	1x	\$ 62.06	40 hrs	\$ 2,482	Index 1d.1
	1141	M or E Estimators or risk coordinator	0	01-Jan-2013	1x	\$ 75.08	40 hrs	\$ 3,003	Index 1d.1
	1150	P-6 Planner	0	01-Jan-2013	1x	\$ 75.08	40 hrs	\$ 3,003	Index 1d.1
PCD 003 U2 Deferral							18,015 hrs	\$ 1,451,143	
	924	SNC - Engineering Manager	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	57 hrs	\$ 6,620	Index 1d.1
	951	SNC- Design Team Lead	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	100 hrs	\$ 9,658	Index 1d.1
	975	SNC - Senior Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	626 hrs	\$ 47,366	Index 1d.1
	981	SNC - Senior Engineer (Electrical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	942 hrs	\$ 71,233	Index 1d.1
	984	SNC - Senior Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	709 hrs	\$ 53,608	Index 1d.1
	978	SNC - Senior Engineer (Civil/ Structural)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	105 hrs	\$ 7,956	Index 1d.1
	987	SNC - Intermediate Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	78 hrs	\$ 5,875	Index 1d.1
	924	SNC - Engineering Manager	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	1,317 hrs	\$ 153,885	Index 1d.1
	951	SNC- Design Team Lead	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	1,317 hrs	\$ 126,729	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	329 hrs	\$ 32,641	Index 1d.1
	1200	EHS Manager	0	01-Jan-2013	1x	\$ 99.16	132 hrs	\$ 13,056	Index 1d.1
	1174	Project Coordinator . / Assessor	0	01-Jan-2013	1x	\$ 75.08	329 hrs	\$ 24,714	Index 1d.1
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	1,317 hrs	\$ 158,540	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	1,317 hrs	\$ 130,562	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	1,317 hrs	\$ 59,686	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	1,317 hrs	\$ 98,854	Index 1d.1
	1150	P-6 Planner	0	01-Jan-2013	1x	\$ 75.08	1,317 hrs	\$ 98,854	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	1,564 hrs	\$ 90,811	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	1,317 hrs	\$ 59,686	Index 1d.1
	924	SNC - Engineering Manager	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	106 hrs	\$ 12,389	Index 1d.1
	975	SNC - Senior Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	170 hrs	\$ 12,856	Index 1d.1
	984	SNC - Senior Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	80 hrs	\$ 6,050	Index 1d.1
	987	SNC - Intermediate Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	170 hrs	\$ 12,856	Index 1d.1
	981	SNC - Senior Engineer (Electrical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	16 hrs	\$ 1,210	Index 1d.1
	984	SNC - Senior Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	451 hrs	\$ 34,107	Index 1d.1
	978	SNC - Senior Engineer (Civil/ Structural)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	38 hrs	\$ 2,874	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	160 hrs	\$ 12,013	Index 1d.1
	1175	Project Coordinator . / Assessor	0	01-Jan-2013	1.5x	\$ 91.33	40 hrs	\$ 3,653	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	40 hrs	\$ 3,512	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	160 hrs	\$ 12,013	Index 1d.1
	1175	Project Coordinator . / Assessor	0	01-Jan-2013	1.5x	\$ 91.33	40 hrs	\$ 3,653	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	40 hrs	\$ 3,512	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	460 hrs	\$ 34,536	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	80 hrs	\$ 7,025	Index 1d.1
	1175	Project Coordinator . / Assessor	0	01-Jan-2013	1.5x	\$ 91.33	140 hrs	\$ 12,786	Index 1d.1
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	200 hrs	\$ 15,016	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	60 hrs	\$ 5,268	Index 1d.1
	1175	Project Coordinator . / Assessor	0	01-Jan-2013	1.5x	\$ 91.33	60 hrs	\$ 5,480	Index 1d.1
PCD 007 Turbine Hall Crane Inspection							1,025 hrs	\$ 70,909	
	904	Project Director	0	01-Jan-2013	1x	\$ 120.41	10 hrs	\$ 1,204	Index 1d.1
	907	Deputy Project Manager	0	01-Jan-2013	1x	\$ 99.16	10 hrs	\$ 992	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	10 hrs	\$ 992	Index 1d.1
	912	PD Admin Assistant	0	01-Jan-2013	1x	\$ 45.33	10 hrs	\$ 453	Index 1d.1
	1151	P-6 Planner	0	01-Jan-2013	1.5x	\$ 91.33	10 hrs	\$ 913	Index 1d.1
	1174	Project Coordinator . / Assessor	0	01-Jan-2013	1x	\$ 75.08	40 hrs	\$ 3,003	Index 1d.1
	1257	Training Coordinator	0	01-Jan-2013	1x	\$ 59.29	10 hrs	\$ 593	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	10 hrs	\$ 581	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	10 hrs	\$ 453	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	5 hrs	\$ 375	Index 1d.1
		Electrical Workers	Journeyman	01-May-2012	Blended	\$ 70.48	48 hrs	\$ 3,383	Index 1d.3
		Carpenters	Journeyman	01-May-2012	Blended	\$ 60.61	114 hrs	\$ 6,910	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 75.81	108 hrs	\$ 8,187	Index 1d.3
		Millwrights	Foreman	01-May-2012	Blended	\$ 67.45	108 hrs	\$ 7,285	Index 1d.3
		AECON - Millwright - GF	0	01-Jan-2013	Blended	\$ 78.88	158 hrs	\$ 12,463	Index 1d.3
		Laborers	Laborer - Group I	01-May-2012	Blended	\$ 53.72	76 hrs	\$ 4,083	Index 1d.3
		Operating Engineers	Operating Engineer Group 1 (A)	01-May-2012	Blended	\$ 66.57	108 hrs	\$ 7,190	Index 1d.3
		Ironworkers	Journeyman Ironworker, Rigger	01-May-2012	Blended	\$ 65.83	180 hrs	\$ 11,849	Index 1d.3

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(4) - Revised Definition Phase Target Cost



Ref.	Labour Schedule Ref.	Position	Grade	Effective Date	Normal / Overtime	Rate	Hours	Total	Applicable Adjustable Cost Index
PCD 008 Pre-Reqs							2,961 hrs	\$ 199,094	
		Civil Engineers	0	01-Jan-2013	1x	\$ 73.00	220 hrs	\$ 16,060	Index 1d.3
		PCN-0014						\$ -	Index 1d.3
		Electrical Workers	Journeyman	01-May-2012	Blended	\$ 68.84	30 hrs	\$ 2,065	Index 1d.3
		Pipefitters	Journeyman	01-May-2012	Blended	\$ 66.46	10 hrs	\$ 665	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 67.29	1,280 hrs	\$ 86,133	Index 1d.3
		Operating Engineers	Operating Engineer Group 1 (A)	01-May-2012	Blended	\$ 67.20	70 hrs	\$ 4,704	Index 1d.3
		Ironworkers	Journeyman Ironworker, Rigger	01-May-2012	Blended	\$ 64.91	15 hrs	\$ 974	Index 1d.3
		PCN-0016						\$ -	Index 1d.3
		Electrical Workers	Journeyman	01-May-2012	Blended	\$ 68.84	20 hrs	\$ 1,377	Index 1d.3
		Ironworkers	Journeyman Ironworker, Rigger	01-May-2012	Blended	\$ 64.91	553 hrs	\$ 35,895	Index 1d.3
		PCN-0017						\$ -	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 67.29	23 hrs	\$ 1,548	Index 1d.3
		PCN-0018						\$ -	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 67.29	31 hrs	\$ 2,086	Index 1d.3
		PCN-0020						\$ -	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 67.29	48 hrs	\$ 3,230	Index 1d.3
		PCN-0021						\$ -	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 67.29	187 hrs	\$ 12,583	Index 1d.3
		Operating Engineers	Operating Engineer Group 1 (A)	01-May-2012	Blended	\$ 67.20	30 hrs	\$ 2,016	Index 1d.3
		Ironworkers	Journeyman Ironworker, Rigger	01-May-2012	Blended	\$ 64.94	50 hrs	\$ 3,247	Index 1d.3
		PCN-0022						\$ -	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 67.29	70 hrs	\$ 4,710	Index 1d.3
		PCN-0027						\$ -	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 67.29	278 hrs	\$ 18,707	Index 1d.3
		PCN-H2 Fan Stand						\$ -	Index 1d.3
		Millwrights	Journeyman	01-May-2012	Blended	\$ 67.29	46 hrs	\$ 3,095	Index 1d.3
PCD 009 Additional Maintenance Work							7,592 hrs	\$ 595,841	
	1153	Projects Coordinator	0	01-Jan-2013	1x	\$ 75.08	3,058 hrs	\$ 229,592	Index 1d.1
	1191	QA Specialist	0	01-Jan-2013	1x	\$ 87.81	2,030 hrs	\$ 178,250	Index 1d.1
	1174	Project Coordinator / Assessor	0	01-Jan-2013	1x	\$ 75.08	2,504 hrs	\$ 187,998	Index 1d.1
Revised U2 Lay-up Scope Definition Activities as per NK38-SOW-09701-10041 & Clarification Sessions							14,705 hrs	\$ 1,202,206	
	951	SNC- Design Team Lead	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	1,105 hrs	\$ 106,356	Index 1d.1
	960	SNC- Consultant (Mechanical)	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	1,105 hrs	\$ 129,147	Index 1d.1
	975	SNC - Senior Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	1,292 hrs	\$ 97,708	Index 1d.1
	981	SNC - Senior Engineer (Electrical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	204 hrs	\$ 15,428	Index 1d.1
	984	SNC - Senior Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	391 hrs	\$ 29,569	Index 1d.1
	987	SNC - Intermediate Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	697 hrs	\$ 52,711	Index 1d.1
	993	SNC - Intermediate Engineer (Electrical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	357 hrs	\$ 26,998	Index 1d.1
	996	SNC - Intermediate Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	697 hrs	\$ 52,711	Index 1d.1
	999	SNC - Junior Engineer (Mechanical)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	493 hrs	\$ 22,370	Index 1d.1
	1011	SNC - Designer/ Drafter (Mechanical)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	255 hrs	\$ 11,571	Index 1d.1
	1017	SNC - Designer/ Drafter (Electrical)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	43 hrs	\$ 1,928	Index 1d.1
	1020	SNC - Designer/ Drafter (I&C/ HFE)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	77 hrs	\$ 3,471	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	85 hrs	\$ 6,382	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	85 hrs	\$ 3,853	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	85 hrs	\$ 4,937	Index 1d.1
	917	Buyer / Materials Coordinator	0	01-Jan-2013	1x	\$ 58.08	85 hrs	\$ 4,937	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	85 hrs	\$ 8,429	Index 1d.1
	1194	QC. Coordinator	0	01-Jan-2013	1x	\$ 75.08	85 hrs	\$ 6,382	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	170 hrs	\$ 16,857	Index 1d.1
	1168	Construction or Risk Manager	0	01-Jan-2013	1x	\$ 99.16	85 hrs	\$ 8,429	Index 1d.1
	1150	P-6 Planner	0	01-Jan-2013	1x	\$ 75.08	2,040 hrs	\$ 153,162	Index 1d.1
	1171	Scope Lead	0	01-Jan-2013	1x	\$ 99.16	2,040 hrs	\$ 202,289	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	85 hrs	\$ 6,840	Index 1d.1
	1174	Project Coordinator / Assessor	0	01-Jan-2013	1x	\$ 75.08	3,060 hrs	\$ 229,743	Index 1d.1
Nitrogen Gas Modification to LPSW as per NK38-SOW-09701-10041 Table 3, Item 20							2,595 hrs	\$ 212,154	
	951	SNC- Design Team Lead	Category D - Home Office	01-Jan-2013	1x	\$ 96.25	195 hrs	\$ 18,769	Index 1d.1
	960	SNC- Consultant (Mechanical)	Category E - Home Office	01-Jan-2013	1x	\$ 116.88	195 hrs	\$ 22,791	Index 1d.1

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(4) - Revised Definition Phase Target Cost



Ref.	Labour Schedule Ref.	Resources					Definition Phase		Applicable Adjustable Cost Index
		Position	Grade	Effective Date	Normal / Overtime	Rate	Hours	Total	
	975	SNC - Senior Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	228 hrs	\$ 17,243	Index 1d.1
	981	SNC - Senior Engineer (Electrical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	36 hrs	\$ 2,723	Index 1d.1
	984	SNC - Senior Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	69 hrs	\$ 5,218	Index 1d.1
	987	SNC - Intermediate Engineer (Mechanical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	123 hrs	\$ 9,302	Index 1d.1
	993	SNC - Intermediate Engineer (Electrical)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	63 hrs	\$ 4,764	Index 1d.1
	996	SNC - Intermediate Engineer (I&C/ HFE)	Category C - Home Office	01-Jan-2013	1x	\$ 75.63	123 hrs	\$ 9,302	Index 1d.1
	999	SNC - Junior Engineer (Mechanical)	Category B - Home Office	01-Jan-2013	1x	\$ 45.38	87 hrs	\$ 3,948	Index 1d.1
	1011	SNC - Designer/ Drafter (Mechanical)	Category B- Home Office	01-Jan-2013	1x	\$ 45.38	45 hrs	\$ 2,042	Index 1d.1
	1017	SNC - Designer/ Drafter (Electrical)	Category B- Home Office	01-Jan-2013	1x	\$ 45.38	8 hrs	\$ 340	Index 1d.1
	1020	SNC - Designer/ Drafter (I&C/ HFE)	Category B- Home Office	01-Jan-2013	1x	\$ 45.38	14 hrs	\$ 613	Index 1d.1
	1203	EHS Coordinator	0	01-Jan-2013	1x	\$ 75.08	15 hrs	\$ 1,126	Index 1d.1
	1158	Doc Control Clerk	0	01-Jan-2013	1x	\$ 45.33	15 hrs	\$ 680	Index 1d.1
	1178	Project Accountant	0	01-Jan-2013	1x	\$ 58.08	15 hrs	\$ 871	Index 1d.1
	917	Buyer / Materials Coordinator	0	01-Jan-2013	1x	\$ 58.08	15 hrs	\$ 871	Index 1d.1
	1188	QA Manager	0	01-Jan-2013	1x	\$ 99.16	15 hrs	\$ 1,487	Index 1d.1
	1194	QC. Coordinator	0	01-Jan-2013	1x	\$ 75.08	15 hrs	\$ 1,126	Index 1d.1
	1148	Project Controls Manager	0	01-Jan-2013	1x	\$ 99.16	30 hrs	\$ 2,975	Index 1d.1
	1168	Construction or Risk Manager	0	01-Jan-2013	1x	\$ 99.16	15 hrs	\$ 1,487	Index 1d.1
	1150	P-6 Planner	0	01-Jan-2013	1x	\$ 75.08	360 hrs	\$ 27,029	Index 1d.1
	1171	Scope Lead	0	01-Jan-2013	1x	\$ 99.16	360 hrs	\$ 35,698	Index 1d.1
	1254	Technical Advisor	0	01-Jan-2013	1x	\$ 80.47	15 hrs	\$ 1,207	Index 1d.1
	1174	Project Coordinator . / Assessor	0	01-Jan-2013	1x	\$ 75.08	540 hrs	\$ 40,543	Index 1d.1
10	Other items [Proponent to insert additional line items below if required]							\$ (288,113)	
	3% Contingency							\$ 553,197	Index 1d.4
	3% Contingency (for NEW 9e)							\$ 5,337	Index 1d.4
	PCD 001 - Contingency							\$ 1,620	Index 1d.1
	PCD 003 - Credit For Commissioning Work							\$ (957,539)	Index 1d.1
	PCD 003 - Credit For Modification Installation Work Packages							\$ (375,137)	Index 1d.1
	PCD 007 - LOA							\$ 10,705	Index 1d.3
	PCD 007 - Kone Cranes							\$ 101,013	Index 1d.3
	PCD 007 - Small Tools & Consumables							\$ 3,681	Index 1d.3
	PCD 007 - 80' Manlift							\$ 7,500	Index 1d.3
	PCD 007 - 3% Contingency							\$ 287	Index 1d.4
	PCD 008 - LOA							\$ 31,933	Index 1d.3
	PCD 008 - Subcontracts (With OH & Profit)							\$ 521,444	Index 1d.3
	PCD 008 - Subcontracts (Without OH & Profit)							\$ (129,529)	Index 1d.3
	PCD 008 - Small Tools & Consumables (SS&E)							\$ 10,982	Index 1d.3
	PCD 008 - Other SS&E							\$ 2,465	Index 1d.3
	PCD 008 - PMT - Direct Non-Trade Labour (Site)							\$ 77,664	Index 1d.3
	PCD 009 - 3% Contingency							\$ 17,875	Index 1d.4
	Removal of Layup Scope Elements							\$ (131,300)	Index 1d.1
	Adjustment for Class 2 Estimate(Hybrid Binding Submisison) and Level 5 Schedule for Modification Work on Units 3, 1 and 4							\$ (40,311)	Index 1d.1
The unescalated Definition Phase Target Cost is:								\$ 20,709,085	

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1 (5) - Cost Flow Definition Phase Target Cost

The Proponent is to provide forecasted annual expenditures for the purposes of applying Economic Cost Adjustments to Adjustable Costs.

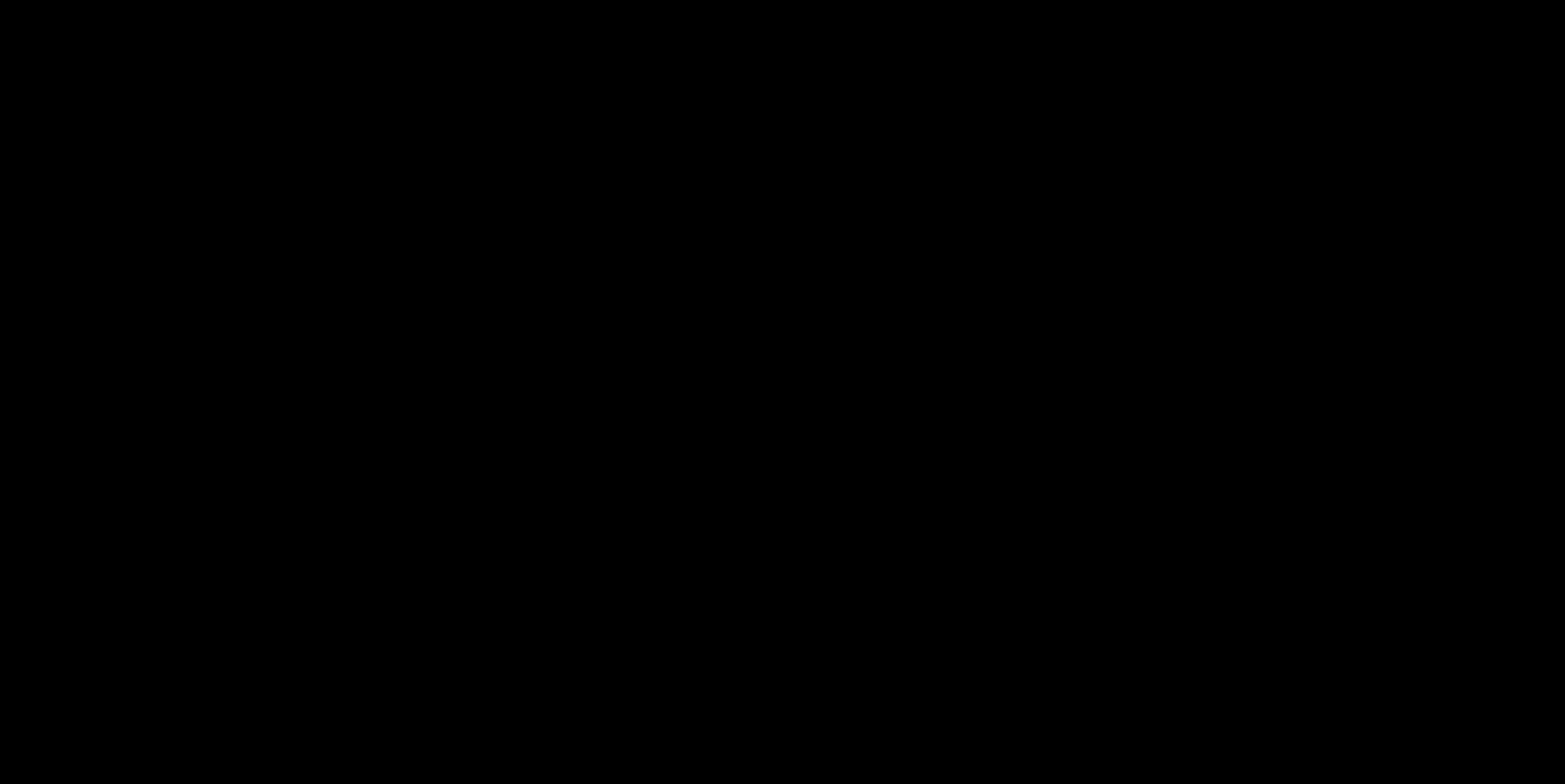
Pricing Mechanism/Scope	Escalation Base Year	Base Cost (from Definition Phase Target Cost Worksheet)	Contract Year				Total
			2013	2014	2015	2016	
COSTS (at base year, i.e. unescalated)							Costs
Definition Phase Target Cost							
Index 1d.1	2013	\$ 19,091,954		\$ 6,620,906	\$ 12,173,127	\$ 297,921	\$ 19,091,954
Index 1d.2	2013	\$ 142,133		\$ 51,168	\$ 90,965	\$ -	\$ 142,133
Index 1d.4	2013	\$ 576,696		\$ -	\$ 760,943	\$ -	\$ 760,943
Index 1d.3		\$ 898,302			\$ 714,054		\$ 714,054
		\$ -					\$ -
		\$ -					\$ -
Definition Phase Target Cost (Unescalated)		\$ 20,709,085	\$ -	\$ 6,672,074	\$ 13,739,090	\$ 297,921	\$ 20,709,084
ESCALATION RATES	Escalation Base Year		2013	2014	2015	2016	
Year Over Year Escalation Rates							
Index 1d.1			2.00%	2.00%	2.00%	2.00%	
Index 1d.2			2.00%	2.00%	2.00%	2.00%	
Index 1d.4			0.00%	0.00%	0.00%	0.00%	
Index 1d.3			0.00%	0.00%	0.00%	0.00%	
Compounded Escalation Rates							
Index 1d.1	2013		100.00%	102.00%	104.04%	106.12%	
Index 1d.2	2013		100.00%	102.00%	104.04%	106.12%	
Index 1d.4	2013		100.00%	100.00%	100.00%	100.00%	
Index 1d.3				100.00%	100.00%	100.00%	
ESCALATED COSTS							Total
Definition Phase Target Cost							
Index 1d.1			\$ -	\$ 6,753,324	\$ 12,664,922	\$ 316,156	\$ 19,734,401
Index 1d.2			\$ -	\$ 52,191	\$ 94,640	\$ -	\$ 146,832
Index 1d.4			\$ -	\$ -	\$ 760,943	\$ -	\$ 760,943
Index 1d.3				\$ -	\$ 714,054	\$ -	\$ 714,054
							\$ -
							\$ -
Definition Phase Target Cost (Escalated)			\$ -	\$ 6,805,516	\$ 14,234,559	\$ 316,156	\$ 21,356,230
The Definition Phase Target Cost is: \$ 21,356,230							

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

ONTARIO**POWER**
GENERATION

Attachment 7.1(6) - Definition Phase Fixed Fee



Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(7) - Execution Phase Target Cost

Ref	Labour Schedule Ref	Position	Grade	Effective Date	Normal / Overtime	Rate	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808
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GENERATION

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Total	Adjustable Cost Index
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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(7) - Execution Phase Target Cost

Ref	Labour Schedule Ref	Position	Resources	Grade	Effective Date	Normal / OverTime	Rate	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	3061	3062	3063	3064	3065	3066	3067	3068	3069	3070	3071	3072	3073	3074	3075	3076	3077	3078	3079	3080	3081	3082	3083	3084	3085	3086	3087	3088	3089	3090	3091	3092	3093	3094	3095	3096	3097	3098	3099	3100	3101	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3114	3115	3116	3117	3118	3119	3120	3121	3122	3123	3124	3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136	3137	3138	3139	3140	3141	3142	3143	3144	3145	3146	3147	3148	3149	3150	3151	3152	3153	3154	3155	3156	3157	3158	3159	3160	3161	3162	3163	3164	3165	3166	3167	3168	3169	3170	3171	3172	3173	3174	3175	3176	3177	3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	3191	3192	3193	3194	3195	3196	3197	3198	3199	3200	3201	3202	3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217	3218	3219	3220	3221	3222	3223	3224	3225	3226	3227	3228	3229	3230	3231	3232	3233	3234	3235	3236	3237	3238	3239	3240	3241	3242	3243	3244	3245	3246	3247	3248	3249	3250	3251	3252	3253	3254	3255	3256	3257	3258	3259	3260	3261	3262	3263	3264	3265	3266	3267	3268	3269	3270	3271	3272	3273	3274	3275	3276	3277	3278	3279	3280	3281	3282	3283	3284	3285	3286	3287	3288	3289	3290	3291	3292	3293	3294	3295	3296	3297	3298	3299	3300	3301	3302	3303	3304	3305	3306	3307	3308	3309	3310	3311	3312	3313	3314	3315	3316	3317	3318	3319	3320	3321	3322	3323	3324	3325	3326	3327	3328	3329	3330	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340	3341	3342	3343	3344	3345	3346	3347	3348	3349	3350	3351
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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(7) - Execution Phase Target Cost

Ref	Labour Schedule Ref.	Resources	Grade	Effective Date	Normal / Overtime	Rate	Hours	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Total	Applicable Index			
							Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Total	Index		
154		Electricians	Apprentice - 3rd Year	Jan. 1, 2015	1x	\$ 43.42		\$ -		\$ -		\$ -		\$ -	1,046 hrs	\$ 84,495	7,078 hrs	\$ 307,240	3 hrs	\$ 130	133 hrs	\$ 5,775	\$ -	\$ 397,640	Index 2.3	
155		Electricians	Apprentice - 3rd Year	Jan. 1, 2015	1.5x	\$ 65.13		\$ -		\$ -		\$ -		\$ -	487 hrs	\$ 31,718	1,748 hrs	\$ 113,847	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 147,715	Index 2.3	
157		Electricians	Support Trades - GF	Jan. 1, 2015	1x	\$ 74.61		\$ -		\$ -		\$ -		\$ -	1,273 hrs	\$ 40,812	1,273 hrs	\$ 244,199	134 hrs	\$ 9,998	0 hrs	\$ -	\$ -	\$ 255,008	Index 2.3	
158		Electricians	Support Trades - GF	Jan. 1, 2015	1.5x	\$ 111.77		\$ -		\$ -		\$ -		\$ -	135 hrs	\$ 15,089	811 hrs	\$ 90,645	34 hrs	\$ 3,800	0 hrs	\$ -	\$ -	\$ 109,535	Index 2.3	
159		Electricians	Support Trades - Temp (over)	Jan. 1, 2015	1x	\$ 64.10		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	942 hrs	\$ 53,972	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 53,972	Index 2.3	
160		Electricians	Support Trades - Temp (over)	Jan. 1, 2015	1.5x	\$ 96.00		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	206 hrs	\$ 19,968	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 19,968	Index 2.3	
161		Electricians	Training - Electricians	Jan. 1, 2015	1x	\$ 62.61		\$ -		\$ -		\$ -		\$ -	614 hrs	\$ 38,443	1,256 hrs	\$ 128,726	0 hrs	\$ -	48 hrs	\$ 3,005	\$ -	\$ 170,174	Index 2.3	
162		Electricians	Training - Electricians	Jan. 1, 2015	1.5x	\$ 93.91		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
167		Ironworkers	Foreman	Jan. 1, 2015	1x	\$ 87.04		\$ -		\$ -		\$ -		\$ -	10 hrs	\$ 870	37 hrs	\$ 2,480	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 3,151	Index 2.3	
168		Ironworkers	Foreman	Jan. 1, 2015	1.5x	\$ 100.57		\$ -		\$ -		\$ -		\$ -	201 hrs	\$ 20,107	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 20,107	Index 2.3	
170		Ironworkers	Subforeman	Jan. 1, 2015	1x	\$ 63.48		\$ -		\$ -		\$ -		\$ -	10 hrs	\$ 635	37 hrs	\$ 2,348	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 2,982	Index 2.3	
171		Ironworkers	Subforeman	Jan. 1, 2015	1.5x	\$ 95.17		\$ -		\$ -		\$ -		\$ -	2 hrs	\$ 190	0 hrs	\$ 857	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 1,047	Index 2.3	
176		Ironworkers	Journeyman	Jan. 1, 2015	1x	\$ 58.85		\$ -		\$ -		\$ -		\$ -	60 hrs	\$ 4,130	247 hrs	\$ 14,783	0 hrs	\$ -	4 hrs	\$ 239	\$ -	\$ 19,152	Index 2.3	
177		Ironworkers	Journeyman	Jan. 1, 2015	1.5x	\$ 89.77		\$ -		\$ -		\$ -		\$ -	17 hrs	\$ 1,526	59 hrs	\$ 5,296	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 6,823	Index 2.3	
183		Ironworkers	Apprentice - 3rd Year	Jan. 1, 2015	1x	\$ 47.87		\$ -		\$ -		\$ -		\$ -	17 hrs	\$ 814	63 hrs	\$ 2,872	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 3,686	Index 2.3	
186		Ironworkers	Apprentice - 3rd Year	Jan. 1, 2015	1.5x	\$ 72.80		\$ -		\$ -		\$ -		\$ -	3 hrs	\$ 215	15 hrs	\$ 1,077	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 1,292	Index 2.3	
187		Ironworkers	Support Trades - JM	Jan. 1, 2015	1x	\$ 59.87		\$ -		\$ -		\$ -		\$ -	397 hrs	\$ 23,768	1,997 hrs	\$ 203,378	132 hrs	\$ 7,903	0 hrs	\$ -	\$ -	\$ 235,050	Index 2.3	
188		Ironworkers	Support Trades - JM	Jan. 1, 2015	1.5x	\$ 89.66		\$ -		\$ -		\$ -		\$ -	99 hrs	\$ 8,876	841 hrs	\$ 75,404	33 hrs	\$ 2,959	0 hrs	\$ -	\$ -	\$ 87,239	Index 2.3	
189		Ironworkers	Training - Ironworkers	Jan. 1, 2015	1x	\$ 59.04		\$ -		\$ -		\$ -		\$ -	39 hrs	\$ 2,303	154 hrs	\$ 7,911	0 hrs	\$ -	2 hrs	\$ 118	\$ -	\$ 10,332	Index 2.3	
190		Ironworkers	Training - Ironworkers	Jan. 1, 2015	1.5x	\$ 88.56		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
196		Insulators	Foreman	Jan. 1, 2015	1x	\$ 93.24		\$ -		\$ -		\$ -		\$ -	24 hrs	\$ 2,150	120 hrs	\$ 7,589	0 hrs	\$ -	3 hrs	\$ 63	\$ -	\$ 9,802	Index 2.3	
197		Insulators	Foreman	Jan. 1, 2015	1.5x	\$ 94.86		\$ -		\$ -		\$ -		\$ -	8 hrs	\$ 759	39 hrs	\$ 2,751	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 3,510	Index 2.3	
200		Insulators	Subforeman	Jan. 1, 2015	1x	\$ 60.13		\$ -		\$ -		\$ -		\$ -	34 hrs	\$ 2,044	120 hrs	\$ 7,216	0 hrs	\$ -	1 hrs	\$ 60	\$ -	\$ 9,320	Index 2.3	
201		Insulators	Subforeman	Jan. 1, 2015	1.5x	\$ 90.19		\$ -		\$ -		\$ -		\$ -	8 hrs	\$ 722	29 hrs	\$ 2,616	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 3,337	Index 2.3	
202		Insulators	Journeyman	Jan. 1, 2015	1x	\$ 58.26		\$ -		\$ -		\$ -		\$ -	135 hrs	\$ 13,109	843 hrs	\$ 47,482	0 hrs	\$ -	15 hrs	\$ 874	\$ -	\$ 61,464	Index 2.3	
203		Insulators	Journeyman	Jan. 1, 2015	1.5x	\$ 87.39		\$ -		\$ -		\$ -		\$ -	18 hrs	\$ 1,636	120 hrs	\$ 7,565	0 hrs	\$ -	2 hrs	\$ 162	\$ -	\$ 22,634	Index 2.3	
217		Insulators	Apprentice - 3rd Year	Jan. 1, 2015	1x	\$ 43.91		\$ -		\$ -		\$ -		\$ -	44 hrs	\$ 1,932	162 hrs	\$ 7,113	0 hrs	\$ -	2 hrs	\$ 88	\$ -	\$ 9,133	Index 2.3	
218		Insulators	Apprentice - 3rd Year	Jan. 1, 2015	1.5x	\$ 65.87		\$ -		\$ -		\$ -		\$ -	11 hrs	\$ 725	89 hrs	\$ 2,569	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 3,294	Index 2.3	
219		Insulators	Support Trades - GF	Jan. 1, 2015	1x	\$ 66.78		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
220		Insulators	Support Trades - GF	Jan. 1, 2015	1.5x	\$ 94.40		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
221		Insulators	Training - Insulators	Jan. 1, 2015	1x	\$ 58.06		\$ -		\$ -		\$ -		\$ -	22 hrs	\$ 1,277	170 hrs	\$ 4,355	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 5,630	Index 2.3	
222		Insulators	Training - Insulators	Jan. 1, 2015	1.5x	\$ 87.09		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
338		Painters	Foreman	Jan. 1, 2015	1x	\$ 57.39		\$ -		\$ -		\$ -		\$ -	4 hrs	\$ 230	16 hrs	\$ 918	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 1,148	Index 2.3	
339		Painters	Foreman	Jan. 1, 2015	1.5x	\$ 86.08		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	3 hrs	\$ 258	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 258	Index 2.3	
342		Painters	Subforeman	Jan. 1, 2015	1x	\$ 55.26		\$ -		\$ -		\$ -		\$ -	4 hrs	\$ 221	37 hrs	\$ 884	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 1,105	Index 2.3	
343		Painters	Subforeman	Jan. 1, 2015	1.5x	\$ 82.89		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	3 hrs	\$ 249	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 249	Index 2.3	
344		Painters	Journeyman	Jan. 1, 2015	1x	\$ 53.74		\$ -		\$ -		\$ -		\$ -	31 hrs	\$ 1,666	114 hrs	\$ 6,126	0 hrs	\$ -	3 hrs	\$ 54	\$ -	\$ 7,846	Index 2.3	
345		Painters	Journeyman	Jan. 1, 2015	1.5x	\$ 80.61		\$ -		\$ -		\$ -		\$ -	7 hrs	\$ 564	27 hrs	\$ 2,176	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 2,741	Index 2.3	
372		Painters	Apprentice - 3rd Year	Jan. 1, 2015	1x	\$ 43.00		\$ -		\$ -		\$ -		\$ -	6 hrs	\$ 270	21 hrs	\$ 945	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 1,215	Index 2.3	
373		Painters	Apprentice - 3rd Year	Jan. 1, 2015	1.5x	\$ 67.49		\$ -		\$ -		\$ -		\$ -	1 hrs	\$ 67	6 hrs	\$ 337	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 405	Index 2.3	
374		Painters	Support Trades - GF	Jan. 1, 2015	1x	\$ 60.76		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
375		Painters	Support Trades - GF	Jan. 1, 2015	1.5x	\$ 91.68		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
376		Painters	Training - Painters	Jan. 1, 2015	1x	\$ 54.09		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
377		Painters	Training - Painters	Jan. 1, 2015	1.5x	\$ 72.08		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
680		Pipefitter	Foreman	Jan. 1, 2015	1x	\$ 67.11		\$ -		\$ -		\$ -		\$ -	25 hrs	\$ 1,705	817 hrs	\$ 51,540	0 hrs	\$ -	17 hrs	\$ 1,141	\$ -	\$ 52,727	Index 2.3	
681		Pipefitter	Foreman	Jan. 1, 2015	1.5x	\$ 100.66		\$ -		\$ -		\$ -		\$ -	43 hrs	\$ 2,942	217 hrs	\$ 22,850	0 hrs	\$ -	4 hrs	\$ 403	\$ -	\$ 29,594	Index 2.3	
682		Pipefitter	Subforeman	Jan. 1, 2015	1x	\$ 64.37		\$ -		\$ -		\$ -		\$ -	254 hrs	\$ 16,401	917 hrs	\$ 59,211	0 hrs	\$ -	17 hrs	\$ 1,098	\$ -	\$ 76,709	Index 2.3	
683		Pipefitter	Subforeman	Jan. 1, 2015	1.5x	\$ 96.85		\$ -		\$ -		\$ -		\$ -	63 hrs	\$ 4,102	227 hrs	\$ 21,985	0 hrs	\$ -	4 hrs	\$ 387	\$ -	\$ 28,474	Index 2.3	
697		Pipefitter	Journeyman	Jan. 1, 2015	1x	\$ 62.03		\$ -		\$ -		\$ -		\$ -	475 hrs	\$ 30,599	4,312 hrs	\$ 268,368	2 hrs	\$ 124	126 hrs	\$ 7,195	\$ -	\$ 493,387	Index 2.3	
698		Pipefitter	Journeyman	Jan. 1, 2015	1.5x	\$ 93.04		\$ -		\$ -		\$ -		\$ -	1,031 hrs	\$ 66,342	12,511 hrs	\$ 804,754	0 hrs	\$ -	24 hrs	\$ 2,605	\$ -	\$ 1,053,651	Index 2.3	
740		Pipefitter	Apprentice 3rd Period	Jan. 1, 2015	1x	\$ 44.26		\$ -		\$ -		\$ -		\$ -	340 hrs	\$ 15,048	1,236 hrs	\$ 54,705	0 hrs	\$ -	23 hrs	\$ 974	\$ -	\$ 70,727	Index 2.3	
741		Pipefitter	Apprentice 3rd Period	Jan. 1, 2015	1.5x	\$ 66.39		\$ -		\$ -		\$ -		\$ -	84 hrs	\$ 5,577	504 hrs	\$ 20,183	0 hrs	\$ -	7 hrs	\$ 332	\$ -	\$ 26,091	Index 2.3	
742		Pipefitter	Support Trades - GF	Jan. 1, 2015	1x	\$ 69.93		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	419 hrs	\$ 29,301	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 29,301	Index 2.3	
743		Pipefitter	Support Trades - GF	Jan. 1, 2015	1.5x	\$ 104.74		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	104 hrs	\$ 10,893	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ 10,893	Index 2.3	
744		Pipefitter	Training - Pipefitter	Jan. 1, 2015	1x	\$ 60.45		\$ -		\$ -		\$ -		\$ -	200 hrs	\$ 12,090	671 hrs	\$ 40,562	0 hrs	\$ -	15 hrs	\$ 907	\$ -	\$ 53,559	Index 2.3	
745		Pipefitter	Training - Pipefitter	Jan. 1, 2015	1.5x	\$ 90.67		\$ -		\$ -		\$ -		\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	\$ -	Index 2.3
9913		Holder of Record	Holder of Record	Jan. 1, 2015	1x	\$ 61.00		\$ -		\$ -		\$ -		\$ -	302 hrs	\$ 18,622	4,029 hrs	\$ 245,159	234 hrs	\$ 15,494	0 hrs	\$ -	\$ -	\$ 315,675	Index 2.3	
9914		Holder of Record	Holder of Record	Jan. 1, 2015	1.5x	\$ 75.32		\$ -		\$ -		\$ -		\$ -	224 hrs	\$ 13,872	999 hrs	\$ 62,745	42 hrs	\$ 4,670	0 hrs	\$ -	\$ -	\$ 67,886	Index 2.3	
1105		Operators	Operators	Jan. 1, 2015	1x	\$ 61.79		\$ -		\$ -		\$ -		\$ -	26,323	\$ 1,618,082	1,141 hrs	\$ 70,084	3 hrs	\$ 8,094	12 hrs	\$ 768	\$ -	\$ 1,697,622	Index 2.3	
1106		Operators	Operators	Jan. 1, 2015	1.																					

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1[7] - Execution Phase Target Cost

Ref	Labour Schedule Ref	Resources	Grade	Effective Date	Normal/ Overtime	Rate	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Applicable Adjustable Cost Index				
							Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total					
155		Electricians	Apprentice - 3rd Year	Jan. 1, 2015	1a	\$ 43.42	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	33 hrs	\$ 2,234	2,633 hrs	\$ 332,293	1,068 hrs	\$ 46,286	137 hrs	\$ 5,514	\$ 385,308	Index 2.1	
156		Electricians	Apprentice - 3rd Year	Jan. 1, 2015	1.5a	\$ 65.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	13 hrs	\$ 847	1,881 hrs	\$ 123,291	266 hrs	\$ 17,325	33 hrs	\$ 2,084	\$ 143,547	Index 2.1	
157		Electricians	Support Trades - GF	Jan. 1, 2015	1a	\$ 74.61	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	2,642 hrs	\$ 197,120	1,297 hrs	\$ 96,769	0 hrs	\$ -	\$ 293,889	Index 2.1	
158		Electricians	Support Trades - GF	Jan. 1, 2015	1.5a	\$ 111.77	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	653 hrs	\$ 73,209	324 hrs	\$ 36,213	0 hrs	\$ -	\$ 109,423	Index 2.1	
159		Electricians	Support Trades - Bemp (over)	Jan. 1, 2015	1a	\$ 64.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	279 hrs	\$ 17,884	349 hrs	\$ 35,191	0 hrs	\$ -	\$ 53,075	Index 2.1	
160		Electricians	Support Trades - Bemp (over)	Jan. 1, 2015	1.5a	\$ 96.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	69 hrs	\$ 6,624	137 hrs	\$ 13,152	0 hrs	\$ -	\$ 19,776	Index 2.1	
161		Electricians	Training - Electricians	Jan. 1, 2015	1a	\$ 42.61	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	18 hrs	\$ 1,127	2,318 hrs	\$ 145,130	204 hrs	\$ 12,772	46 hrs	\$ 2,880	\$ 161,909	Index 2.1	
162		Electricians	Training - Electricians	Jan. 1, 2015	1.5a	\$ 93.91	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
167		Ironworkers	Foreman	Jan. 1, 2015	1a	\$ 67.04	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	9 hrs	\$ 603	0 hrs	\$ -	0 hrs	\$ -	\$ 603	Index 2.1	
168		Ironworkers	Foreman	Jan. 1, 2015	1.5a	\$ 100.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	2 hrs	\$ 201	0 hrs	\$ -	0 hrs	\$ -	\$ 201	Index 2.1	
173		Ironworkers	Subforeman	Jan. 1, 2015	1a	\$ 63.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	9 hrs	\$ 571	0 hrs	\$ -	0 hrs	\$ -	\$ 571	Index 2.1	
174		Ironworkers	Subforeman	Jan. 1, 2015	1.5a	\$ 95.17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	2 hrs	\$ 190	0 hrs	\$ -	0 hrs	\$ -	\$ 190	Index 2.1	
176		Ironworkers	Journeyman	Jan. 1, 2015	1a	\$ 59.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	63 hrs	\$ 3,771	8 hrs	\$ 479	0 hrs	\$ -	\$ 4,249	Index 2.1	
177		Ironworkers	Journeyman	Jan. 1, 2015	1.5a	\$ 89.77	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	15 hrs	\$ 1,347	1 hrs	\$ 90	0 hrs	\$ -	\$ 1,436	Index 2.1	
185		Ironworkers	Apprentice - 3rd Year	Jan. 1, 2015	1a	\$ 47.87	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	15 hrs	\$ 718	2 hrs	\$ 48	0 hrs	\$ -	\$ 766	Index 2.1	
186		Ironworkers	Apprentice - 3rd Year	Jan. 1, 2015	1.5a	\$ 71.80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	3 hrs	\$ 215	0 hrs	\$ -	0 hrs	\$ -	\$ 215	Index 2.1	
187		Ironworkers	Support Trades - JM	Jan. 1, 2015	1a	\$ 59.87	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	3,689 hrs	\$ 184,938	823 hrs	\$ 49,273	0 hrs	\$ -	\$ 234,211	Index 2.1	
188		Ironworkers	Support Trades - JM	Jan. 1, 2015	1.5a	\$ 89.66	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	758 hrs	\$ 66,680	206 hrs	\$ 18,470	0 hrs	\$ -	\$ 85,150	Index 2.1	
189		Ironworkers	Training - Ironworkers	Jan. 1, 2015	1a	\$ 59.04	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	131 hrs	\$ 8,915	13 hrs	\$ 768	2 hrs	\$ 118	\$ 9,801	Index 2.1	
190		Ironworkers	Training - Ironworkers	Jan. 1, 2015	1.5a	\$ 88.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
196		Insulators	Foreman	Jan. 1, 2015	1a	\$ 63.24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	124 hrs	\$ 7,842	17 hrs	\$ 1,075	3 hrs	\$ 63	\$ 8,980	Index 2.1	
197		Insulators	Foreman	Jan. 1, 2015	1.5a	\$ 94.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	30 hrs	\$ 2,846	4 hrs	\$ 379	0 hrs	\$ -	\$ 3,225	Index 2.1	
200		Insulators	Subforeman	Jan. 1, 2015	1a	\$ 60.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	124 hrs	\$ 7,456	17 hrs	\$ 1,022	1 hrs	\$ 60	\$ 8,538	Index 2.1	
201		Insulators	Subforeman	Jan. 1, 2015	1.5a	\$ 90.19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	30 hrs	\$ 2,706	4 hrs	\$ 361	0 hrs	\$ -	\$ 3,066	Index 2.1	
202		Insulators	Journeyman	Jan. 1, 2015	1a	\$ 58.26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2 hrs	\$ 291	134 hrs	\$ 48,589	137 hrs	\$ 6,816	14 hrs	\$ 816	\$ 56,512	Index 2.1	
203		Insulators	Journeyman	Jan. 1, 2015	1.5a	\$ 87.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	237 hrs	\$ 18,090	3 hrs	\$ 262	0 hrs	\$ -	\$ 18,352	Index 2.1	
217		Insulators	Apprentice - 3rd Year	Jan. 1, 2015	1a	\$ 43.91	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	168 hrs	\$ 7,377	23 hrs	\$ 1,010	2 hrs	\$ 88	\$ 8,475	Index 2.1	
218		Insulators	Apprentice - 3rd Year	Jan. 1, 2015	1.5a	\$ 65.87	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	40 hrs	\$ 2,635	5 hrs	\$ 329	0 hrs	\$ -	\$ 2,964	Index 2.1	
219		Insulators	Support Trades - GF	Jan. 1, 2015	1a	\$ 66.78	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
220		Insulators	Support Trades - GF	Jan. 1, 2015	1.5a	\$ 94.40	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
221		Insulators	Training - Insulators	Jan. 1, 2015	1a	\$ 58.06	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	88 hrs	\$ 4,993	2 hrs	\$ 406	0 hrs	\$ -	\$ 5,458	Index 2.1	
222		Insulators	Training - Insulators	Jan. 1, 2015	1.5a	\$ 87.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
538		Painters	Foreman	Jan. 1, 2015	1a	\$ 57.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	17 hrs	\$ 976	2 hrs	\$ 115	0 hrs	\$ -	\$ 1,090	Index 2.1	
539		Painters	Foreman	Jan. 1, 2015	1.5a	\$ 86.08	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	4 hrs	\$ 344	0 hrs	\$ -	0 hrs	\$ -	\$ 344	Index 2.1	
542		Painters	Subforeman	Jan. 1, 2015	1a	\$ 55.26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	119 hrs	\$ 6,785	2 hrs	\$ 111	0 hrs	\$ -	\$ 6,896	Index 2.1	
543		Painters	Subforeman	Jan. 1, 2015	1.5a	\$ 82.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	4 hrs	\$ 332	0 hrs	\$ -	0 hrs	\$ -	\$ 332	Index 2.1	
544		Painters	Journeyman	Jan. 1, 2015	1a	\$ 53.74	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	124 hrs	\$ 6,664	17 hrs	\$ 914	1 hrs	\$ 54	\$ 7,631	Index 2.1	
545		Painters	Journeyman	Jan. 1, 2015	1.5a	\$ 80.81	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	35 hrs	\$ 2,418	4 hrs	\$ 322	0 hrs	\$ -	\$ 2,741	Index 2.1	
572		Painters	Apprentice - 3rd Year	Jan. 1, 2015	1a	\$ 45.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	24 hrs	\$ 1,080	3 hrs	\$ 135	0 hrs	\$ -	\$ 1,215	Index 2.1	
573		Painters	Apprentice - 3rd Year	Jan. 1, 2015	1.5a	\$ 67.49	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	5 hrs	\$ 337	0 hrs	\$ -	0 hrs	\$ -	\$ 337	Index 2.1	
574		Painters	Support Trades - GF	Jan. 1, 2015	1a	\$ 60.79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
575		Painters	Support Trades - GF	Jan. 1, 2015	1.5a	\$ 92.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
576		Painters	Training - Painters	Jan. 1, 2015	1a	\$ 54.09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
577		Painters	Training - Painters	Jan. 1, 2015	1.5a	\$ 72.08	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
680		Pipefitter	Foreman	Jan. 1, 2015	1a	\$ 67.11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	403	\$ 26,857	184 hrs	\$ 8,993	18 hrs	\$ 1,074	\$ 27,930	Index 2.1	
681		Pipefitter	Foreman	Jan. 1, 2015	1.5a	\$ 106.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1 hrs	\$ 101	127 hrs	\$ 23,856	14 hrs	\$ 942	3 hrs	\$ 202	\$ 24,800	Index 2.1	
685		Pipefitter	Subforeman	Jan. 1, 2015	1a	\$ 64.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	387	\$ 25,793	134 hrs	\$ 8,652	16 hrs	\$ 1,033	\$ 26,826	Index 2.1	
686		Pipefitter	Subforeman	Jan. 1, 2015	1.5a	\$ 96.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1 hrs	\$ 97	227 hrs	\$ 22,953	14 hrs	\$ 942	3 hrs	\$ 202	\$ 24,800	Index 2.1	
697		Pipefitter	Journeyman	Jan. 1, 2015	1a	\$ 62.03	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	43 hrs	\$ 2,667	6,388 hrs	\$ 395,248	898 hrs	\$ 55,703	107 hrs	\$ 6,637	\$ 428,096	Index 2.1	
698		Pipefitter	Journeyman	Jan. 1, 2015	1.5a	\$ 93.04	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10 hrs	\$ 630	1,588 hrs	\$ 147,468	224 hrs	\$ 20,841	27 hrs	\$ 2,512	\$ 171,752	Index 2.1	
740		Pipefitter	Apprentice 3rd Period	Jan. 1, 2015	1a	\$ 44.26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	354	\$ 22,968	129 hrs	\$ 7,923	21 hrs	\$ 929	\$ 23,897	Index 2.1	
741		Pipefitter	Apprentice 3rd Period	Jan. 1, 2015	1.5a	\$ 66.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1 hrs	\$ 66	318 hrs	\$ 21,112	44 hrs	\$ 2,921	9 hrs	\$ 332	\$ 24,432	Index 2.1	
742		Pipefitter	Support Trades - GF	Jan. 1, 2015	1a	\$ 69.93	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	159 hrs	\$ 9,720	274 hrs	\$ 19,161	0 hrs	\$ -	\$ 28,881	Index 2.1	
743		Pipefitter	Support Trades - GF	Jan. 1, 2015	1.5a	\$ 104.74	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	14 hrs	\$ 3,561	67 hrs	\$ 7,227	0 hrs	\$ -	\$ 10,788	Index 2.1	
744		Pipefitter	Training - Pipefitter	Jan. 1, 2015	1a	\$ 60.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	363	\$ 23,793	45 hrs	\$ 4,050	15 hrs	\$ 907	\$ 24,700	Index 2.1	
745		Pipefitter	Training - Pipefitter	Jan. 1, 2015	1.5a	\$ 90.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	0 hrs	\$ -	\$ -	\$ -	Index 2.1
3913		Holder of Record	Holder of Record	Jan. 1, 2015	1a	\$ 61.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	3,639 hrs	\$ 239,669	1,235 hrs	\$ 75,335	0 hrs	\$ -	\$ 315,004	Index 2.1	
3914		Holder of Record	Holder of Record	Jan. 1, 2015	1.5a	\$ 75.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	977 hrs	\$ 73,588	109 hrs	\$ 23,274	0 hrs	\$ -	\$ 96,862	Index 2.1	
1105		Operators	Operators	Jan. 1, 2015	1a	\$ 61.79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0 hrs	\$ -	2,168 hrs	\$ 146,381	887 hrs	\$ 43,067	21 hrs	\$ 1,24	\$ 189,572	Index 2.1	
1106																									

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1(7) - Execution Phase Target Cost

Ref	Labour Schedule Ref	Resources	Grade	Effective Date	Normal/ Overhead	Rate	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	3006	3007	3008	3009	3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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

Attachment 7.1 (8) - Cost Flow Execution Phase Target Cost

The Proponent is to select the applicable Adjustable Cost indices identified in Attachment 7.1(7) and the associated escalation base year.



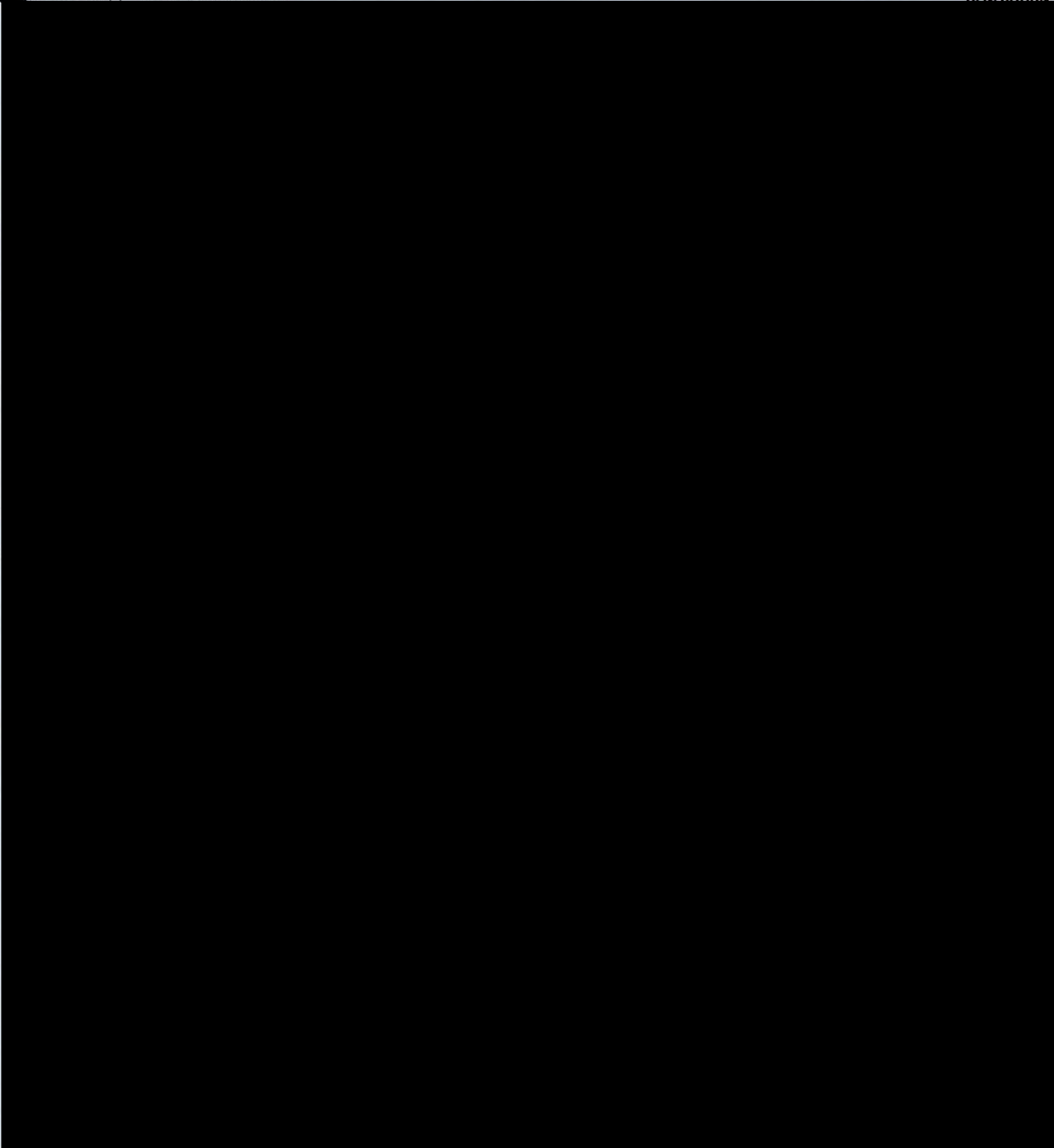
Pricing Mechanism/Scope	Escalation Base Year	Base Cost (from Execution Phase Target Cost Worksheet)	Contract Year														Total	
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026		
COSTS (at base year, I.e. unescalated)																		Costs
Execution Phase Target Cost																		
All Units																		
Index 1a.2	2015	\$ 6,109,339	\$ -	\$ -	\$ -	\$ 1,358,953	\$ 3,725,683	\$ 1,018,599	\$ 6,111	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,109,346	
Index 1a.3	2015	\$ 8,038,608	\$ -	\$ -	\$ -	\$ 6,718	\$ -	\$ -	\$ 1,165,291	\$ 5,756,810	\$ 1,091,014	\$ 18,775	\$ -	\$ -	\$ -	\$ -	\$ 8,038,608	
Index 1a.1	2015	\$ 7,423,582	\$ -	\$ -	\$ -	\$ 1,604	\$ 5,115	\$ -	\$ 1,839,164	\$ 3,795,558	\$ 1,782,141	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,423,582	
Index 1a.4	2015	\$ 7,234,815	\$ -	\$ -	\$ -	\$ 6,719	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,698,716	\$ 4,529,381	\$ 7,234,815	
		\$ -															\$ -	
Index 2.2	2015	\$ 14,865,698	\$ -	\$ -	\$ -	\$ 1,317,220	\$ 11,510,005	\$ 1,419,261	\$ 153,191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,399,677	
Index 2.3	2015	\$ 19,933,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,912,690	\$ 14,063,807	\$ 141,280	\$ 1,815,298	\$ -	\$ -	\$ -	\$ -	\$ 19,933,075	
Index 2.1	2015	\$ 19,086,103	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,785,657	\$ 13,771,225	\$ 2,345,325	\$ 183,896	\$ -	\$ -	\$ -	\$ -	\$ 19,086,103	
Index 2.4	2015	\$ 19,249,016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,426,433	\$ 6,552,891	\$ 6,269,691	\$ -	\$ 19,249,016	
		\$ -															\$ -	
Index 1b.3	2015	\$ 7,569,330	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,554,257	\$ 4,509,001	\$ 1,506,071	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,569,330	
Index 1b.1	2015	\$ 8,918,215	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,920,418	\$ 3,167,958	\$ 2,829,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,918,215	
Index 1b.4	2015	\$ 9,097,192	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,889,650	\$ 2,247,955	\$ 234,713	\$ 926,667	\$ 684,539	\$ 93,085	\$ 20,583	\$ -	\$ -	\$ 9,097,192	
		\$ -															\$ -	
		\$ -															\$ -	
All Units - Sub Total		\$ 127,524,973	\$ -	\$ -	\$ -	\$ 2,691,215	\$ 15,240,803	\$ 11,802,185	\$ 15,162,196	\$ 29,016,061	\$ 19,725,744	\$ 6,646,078	\$ 276,981	\$ 6,447,017	\$ 9,251,607	\$ 10,799,072	\$ 127,058,959	
ESCALATION RATES																		
Year Over Year Escalation Rates																		
Index 1a.2			0.00%	0.00%	0.00%	3.20%	3.20%	3.20%	3.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Index 1a.3			0.00%	0.00%	0.00%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	0.00%	0.00%	0.00%	0.00%	0.00%	
Index 1a.1			0.00%	0.00%	0.00%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	0.00%	0.00%	0.00%	0.00%	
Index 1a.4			0.00%	0.00%	0.00%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	0.00%	0.00%	
Index 2.2			0.00%	0.00%	0.00%	2.50%	2.50%	2.50%	2.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Index 2.3			0.00%	0.00%	0.00%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	0.00%	0.00%	0.00%	0.00%	
Index 2.1			0.00%	0.00%	0.00%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	0.00%	0.00%	0.00%	0.00%	
Index 2.4			0.00%	0.00%	0.00%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
Index 1b.3			0.00%	0.00%	0.00%	3.20%	3.20%	3.20%	3.20%	3.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Index 1b.1			0.00%	0.00%	0.00%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Index 1b.4			0.00%	0.00%	0.00%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	0.00%	0.00%	0.00%	
Compounded Escalation Rates																		
Index 1a.2	2015		100.00%	100.00%	100.00%	103.20%	106.50%	109.91%	113.43%	113.43%	113.43%	113.43%	113.43%	113.43%	113.43%	113.43%	113.43%	
Index 1a.3	2015		100.00%	100.00%	100.00%	103.20%	106.50%	109.91%	113.43%	117.06%	120.80%	124.67%	124.67%	124.67%	124.67%	124.67%	124.67%	
Index 1a.1	2015		100.00%	100.00%	100.00%	103.20%	106.50%	109.91%	113.43%	117.06%	120.80%	124.67%	128.66%	128.66%	128.66%	128.66%	128.66%	
Index 1a.4	2015		100.00%	100.00%	100.00%	103.20%	106.50%	109.91%	113.43%	117.06%	120.80%	124.67%	128.66%	132.78%	137.02%	137.02%	137.02%	
Index 2.2	2015		100.00%	100.00%	100.00%	102.50%	105.06%	107.69%	110.38%	110.38%	110.38%	110.38%	110.38%	110.38%	110.38%	110.38%	110.38%	
Index 2.3	2015		100.00%	100.00%	100.00%	102.50%	105.06%	107.69%	110.38%	113.14%	115.97%	118.87%	118.87%	118.87%	118.87%	118.87%	118.87%	
Index 2.1	2015		100.00%	100.00%	100.00%	102.50%	105.06%	107.69%	110.38%	113.14%	115.97%	118.87%	121.84%	121.84%	121.84%	121.84%	121.84%	
Index 2.4	2015		100.00%	100.00%	100.00%	102.50%	105.06%	107.69%	110.38%	113.14%	115.97%	118.87%	121.84%	124.89%	128.01%	131.21%	131.21%	
Index 1b.3	2015		100.00%	100.00%	100.00%	103.20%	106.50%	109.91%	113.43%	117.06%	117.06%	117.06%	117.06%	117.06%	117.06%	117.06%	117.06%	
Index 1b.1	2015		100.00%	100.00%	100.00%	103.20%	106.50%	109.91%	113.43%	117.06%	120.80%	120.80%	120.80%	120.80%	120.80%	120.80%	120.80%	
Index 1b.4	2015		100.00%	100.00%	100.00%	103.20%	106.50%	109.91%	113.43%	117.06%	120.80%	124.67%	128.66%	132.78%	132.78%	132.78%	132.78%	

ESCALATED COSTS	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Total
Execution Phase Target Cost (Non-Trades only)															
Index 1a.2	\$ -	\$ -	\$ -	\$ 1,402,440	\$ 3,967,942	\$ 1,119,547	\$ 6,932	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,496,860
Index 1a.3	\$ -	\$ -	\$ -	\$ 6,933	\$ -	\$ -	\$ 1,321,762	\$ 6,738,766	\$ 1,317,980	\$ 23,407	\$ -	\$ -	\$ -	\$ -	\$ 9,408,847
Index 1a.1	\$ -	\$ -	\$ -	\$ 1,655	\$ 5,448	\$ -	\$ -	\$ 2,152,876	\$ 4,585,153	\$ 2,221,774	\$ -	\$ -	\$ -	\$ -	\$ 8,966,905
Index 1a.4	\$ -	\$ -	\$ -	\$ 6,934	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,697,891	\$ 6,206,343	\$ 9,911,168
Index 2.2	\$ -	\$ -	\$ -	\$ 1,350,151	\$ 12,092,699	\$ 1,528,389	\$ 169,094	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,140,333
Index 2.3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,318,877	\$ 15,911,907	\$ 163,842	\$ 2,157,819	\$ -	\$ -	\$ -	\$ -	\$ 22,552,445
Index 2.1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,151,715	\$ 15,970,399	\$ 2,787,855	\$ 224,059	\$ -	\$ -	\$ -	\$ 22,134,028
Index 2.4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,025,735	\$ 8,388,255	\$ 8,226,378	\$ 24,640,368
Index 1b.3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,708,292	\$ 5,114,453	\$ 1,762,966	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,585,710
Index 1b.1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,209,845	\$ 3,593,339	\$ 3,312,534	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,115,718
Index 1b.4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,374,238	\$ 2,549,801	\$ 274,749	\$ 1,119,442	\$ 853,406	\$ 119,762	\$ 27,329	\$ -	\$ -	\$ 10,318,728
															\$ -
															\$ -
Total Cost - Execution Phase Target Cost (Non-Trades only)	\$ -	\$ -	\$ -	\$ 2,768,113	\$ 16,066,089	\$ 12,940,310	\$ 17,074,257	\$ 33,305,512	\$ 23,156,815	\$ 8,044,261	\$ 343,821	\$ 8,053,064	\$ 12,086,146	\$ 14,432,721	\$ 148,271,110
The total for the Execution Phase Target Cost is:															\$ 148,271,110

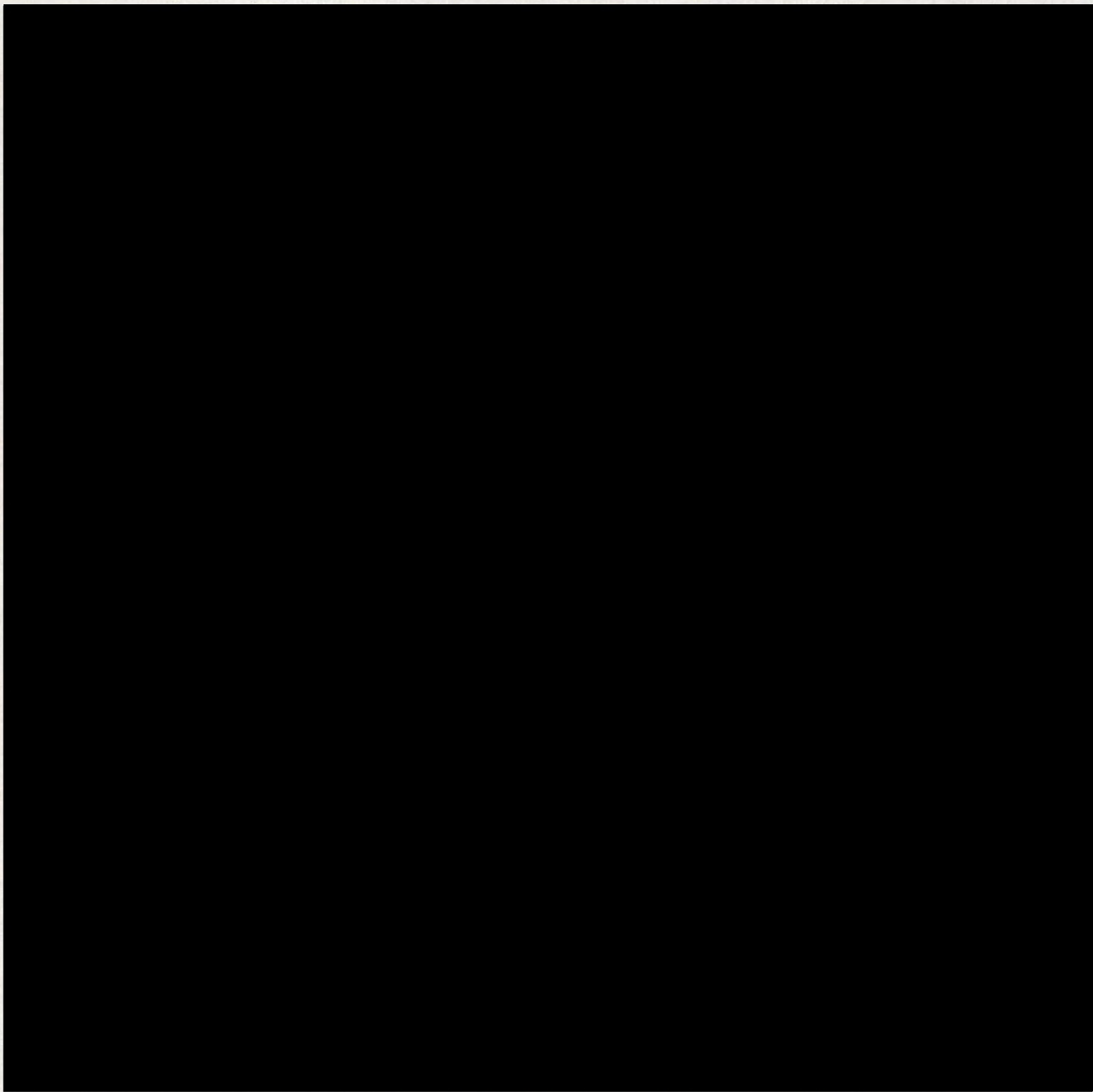
Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

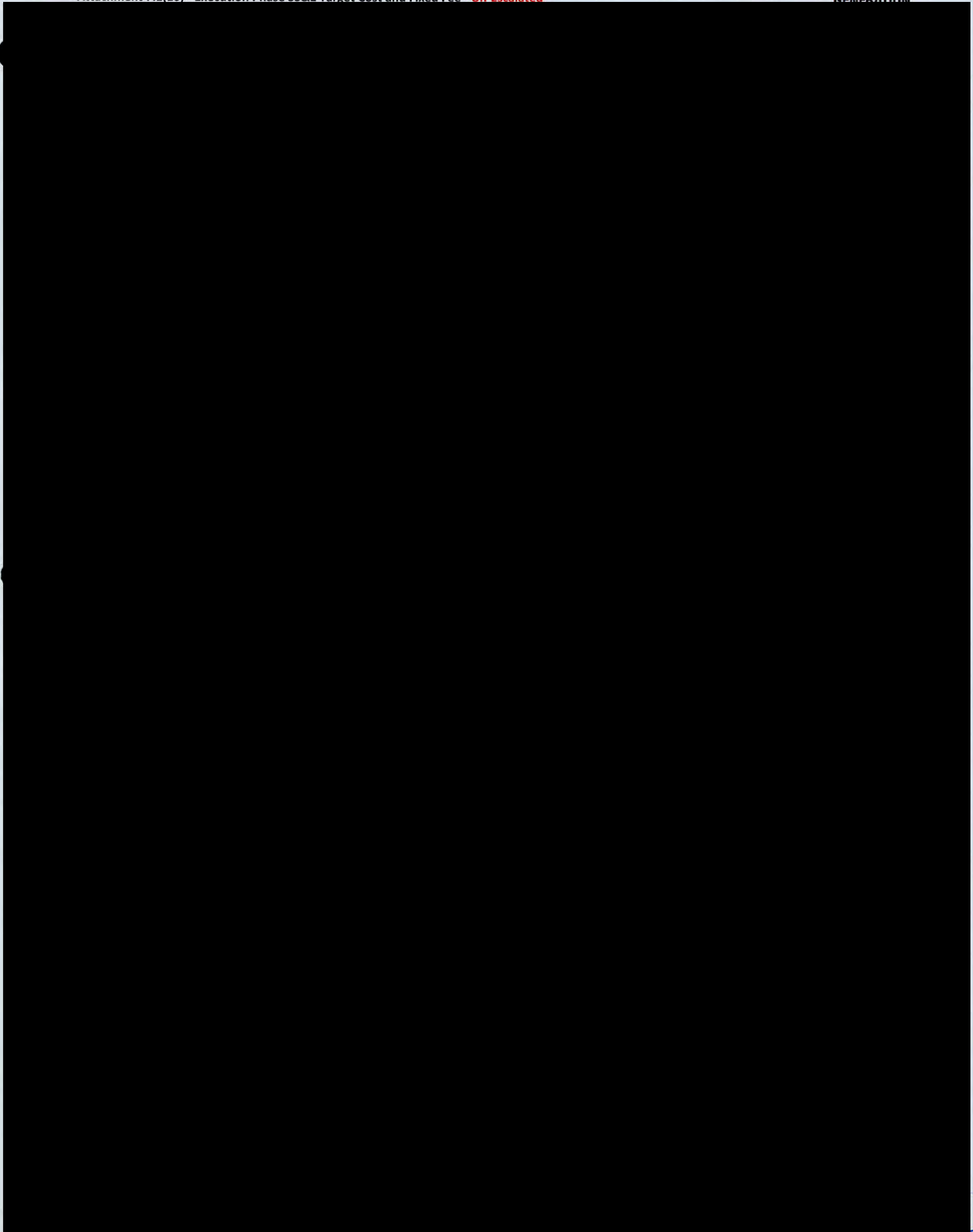
ONTARIO POWER
GENERATION

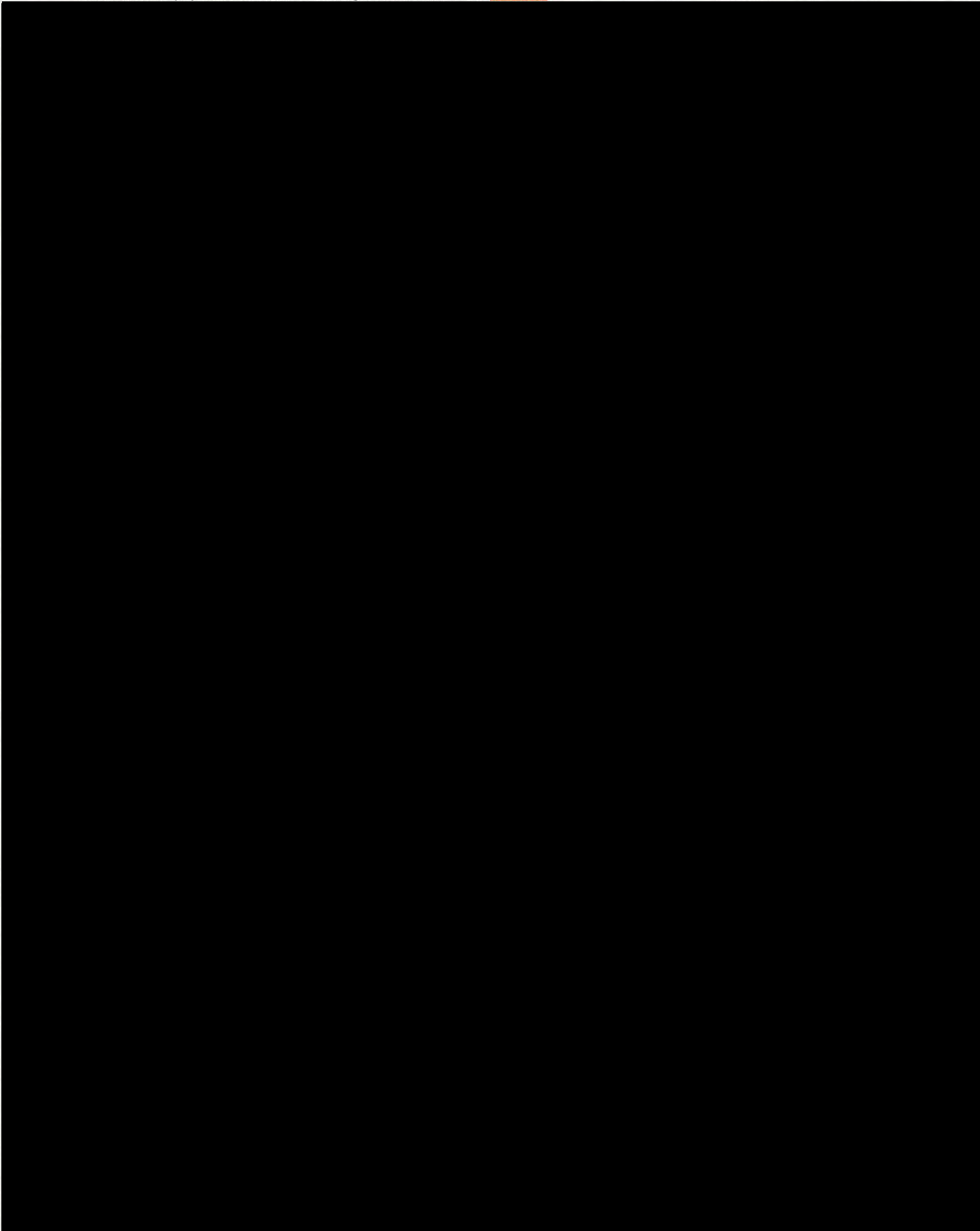
Attachment 7.1(9) - Execution Phase Fixed Fee



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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
	Definition Phase - Amendment 001			
	Definition Phase Deliverables/Milestones	\$ 12,020,783		
Milestone 1	Definition Phase - Project Management Plan (All Units)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	28-Feb-14
Milestone 2	Open Book Management Plan (All Units)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	31-Mar-14
Milestone 3	Contract Management and Oversight Plan (All Units)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	31-Mar-14
Milestone 4	Definition Phase - Draft Baseline Schedule - Level 3 (Unit 2)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	31-Mar-14
Milestone 5	Engineering Plan and Modifications Summary (All Units)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	1-Apr-14
Milestone 6	Project Estimate Plan (All Units)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	11-Apr-14
Milestone 7	Continuous Improvement Plan (All Units)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	11-Apr-14
Milestone 8	Submission of Design Plans for Acceptance (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	28-Apr-14
Milestone 9	Subcontractor Relationship and Procurement Management Plan (All Units)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	28-Apr-14
Milestone 10	Cooperation Agreement (All Units)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	28-Apr-14
Milestone 11	Site Specific Safety Plan (All Units)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	28-Apr-14
Milestone 12	Definition Phase - Final Baseline Schedule - Level 3 (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	30-Apr-14
Milestone 13	Execution Phase - Cost Estimate - AACE Class 4 (All Units)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	31-May-14
Milestone 14	Execution Phase - Schedule - Level 3 (All Units)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	31-May-14
Milestone 15	Submission of Master EC's for Acceptance (All Units)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	17-Sep-14
Milestone 16	Execution Phase - Cost Estimate - AACE Class 3 (All Units)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	30-Sep-14
Milestone 17	Execution Phase - Schedule - Level 4 (All Units)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	30-Sep-14
Milestone 18	Initial Work Assessment(s) (Unit 2)	\$ 339,496	Milestone is declared complete upon entering the information in the required OPG work management system.	30-Sep-14
Milestone 19	Execution Phase - Project Management Plan (All Units)	\$ 452,661	Milestone is declared complete upon OPG acceptance.	31-Oct-14
Milestone 20	75% Submittals of Design EC's for Turbine Controls (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	20-Nov-14
Milestone 21	75% Submittals of Design EC's for Generator Refurbishment (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	20-Nov-14
Milestone 22	Execution Phase - Risk Register (All Units)	\$ 339,496	The Execution Phase Joint Risk Register is complete and has been agreed to and accepted by OPG.	30-Nov-14
Milestone 23	Lifting, Craning, Hoisting and Rigging Plan (All Units)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	30-Jan-15
Milestone 24	75% Submittals of Design EC's for Excitation Controls (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	11-Feb-15
Milestone 25	Crane Safety and Reliability Assessment Plan (All Units)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	28-Feb-15
Milestone 26	Execution Phase - Cost Estimate - AACE Class 2 (HYBRID-All Units)	\$ 439,617	Milestone is declared complete upon OPG acceptance.	31-Mar-15

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 27	Execution Phase - Schedule - Level 5 (Unit 2)	\$ 439,617	Milestone is declared complete upon OPG acceptance.	31-Mar-15
Milestone 28	Final Submittals of Design EC's for Generator Refurbishment (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	31-Mar-16
Milestone 29	Static and Dynamic Commissioning Requirements (Unit 2)	\$ 226,331	Milestone is declared complete upon OPG acceptance.	31-Jul-16
Milestone 30	Final Submittals of Design EC's for Excitation Controls (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	31-Mar-16
Milestone 31	Final Submittals of Design EC's for Turbine Controls (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	31-Mar-16
Milestone 32	Engineering Change Control / Engineered Tooling Documentation (Unit 2)	\$ 226,331	The milestone is declared complete upon OPG acceptance of all design packages and related documentation / information to be ready for issuance of notice-to-proceed with field installation pre-requisites.	31-Mar-16
Milestone 33	Release 1 Design of EC's for Generator Refurbishment (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	31-Mar-16
Milestone 34	Maintenance Procedures (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	15-Jul-15
Milestone 35	Release 1 Design of EC's for Excitation Controls (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	31-Jul-15
Milestone 36	Release 1 Design of EC's for Turbine Controls (Unit 2)	\$ 339,496	Milestone is declared complete upon OPG acceptance.	31-Jul-15
Milestone 37	Report for July 2015 Turbine Hall Crane Inspection (All Units)	\$ 38,560	Milestone is declared complete upon OPG acceptance.	30-Sep-15
Milestone 38	Jib Crane Installation Complete (Unit 2)	\$ 50,321	Milestone is declared complete upon OPG acceptance.	31-Jul-16
Milestone 39	Refurbished Rotor Stands Delivered to Site (All Units)	\$ 55,466	Milestone is declared complete upon OPG acceptance.	31-Jul-16
Milestone 40	Static Commissioning Work Plans (Unit 2)	\$ 76,671	Milestone is declared complete upon OPG acceptance.	31-Jul-16
Milestone 41	PCD 0009 Final Work Assessments Complete (Unit 2)	\$ 100,150	Milestone is declared complete upon OPG acceptance.	16-Feb-16
Milestone 42	D3 Rotor Removed from Site (All Units)	\$ 72,911	Milestone is declared complete upon OPG acceptance.	31-Jul-16
Milestone 43	PCD 0009 CWP's Accepted (Unit 2)	\$ 300,449	Milestone is declared complete upon OPG acceptance.	31-Mar-16
Milestone 44	Condenser Struts - Initial Work Assessments (Unit 2)	\$ 7,163	Milestone is declared complete upon OPG acceptance.	27-Nov-14
Milestone 45	Condenser Struts - Opex Review and Report (All Units)	\$ 1,791	Milestone is declared complete upon OPG acceptance.	27-Feb-15
Milestone 46	Condenser Struts - Inspection Procedure for UT (Unit 2)	\$ 1,791	Milestone is declared complete upon OPG acceptance.	17-Apr-15
Milestone 47	Condenser Struts - Weld Procedure for A285C to SA106B (All Units)	\$ 1,791	Milestone is declared complete upon OPG acceptance.	17-Apr-15
Milestone 48	Condenser Struts - Comprehensive Work Packages (Unit 2)	\$ 10,744	Milestone is declared complete upon OPG acceptance.	15-Jul-15
Milestone 49	Condenser Struts - Inspection and Test Plans (Unit 2)	\$ 5,372	Milestone is declared complete upon OPG acceptance.	15-Jul-15
Milestone 50	Condenser Struts - Release Quality Estimate - Resource Loaded Level 4 Schedule (All Units)	\$ 7,163	Milestone is declared complete upon OPG acceptance.	15-Sep-15
Definition Phase - Amendment 001 - Layup				
	Definition Phase Deliverables/Milestones	\$ 850,918		
Milestone 1	Definition Phase - Draft Baseline Schedule - Level 3	\$ 46,765	Milestone is declared complete upon OPG acceptance.	28-Jul-14

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 2	Engineering Plan and Modifications Summary	\$ 93,529	Milestone is declared complete upon OPG acceptance.	10-Sep-14
Milestone 3	Definition Phase - Final Baseline Schedule - Level 3	\$ 46,765	Milestone is declared complete upon OPG acceptance.	22-Sep-14
Milestone 4	Submission of Design Plans for Acceptance	\$ 46,765	Milestone is declared complete upon OPG acceptance.	30-Sep-14
Milestone 5	Execution Phase - Project Management Plan	\$ 79,467	Milestone is declared complete upon OPG acceptance.	31-Oct-14
Milestone 6	Initial Work Assessment(s)	\$ 46,765	Milestone is declared complete upon entering the information in the required OPG work management system.	15-Nov-14
Milestone 7	Rev PB (80%) Submittals of Design EC's for Turbine, Generator and Aux Systems Lay-Up	\$ 93,529	Milestone is declared complete upon OPG acceptance.	21-Jan-15
Milestone 8	Design COMS for Turbine, Generator and Aux Systems Lay-up	\$ 39,733	Milestone is declared complete upon OPG stakeholder signoff of the COMS declaration.	18-Mar-15
Milestone 9	Commissioning Requirements	\$ 39,733	Milestone is declared complete upon OPG acceptance.	30-Jun-15
Milestone 10	Final Submittals of Design EC's Turbine System Lay-Up	\$ 79,467	The milestone is declared complete upon OPG acceptance of all design packages and related documentation / information to be ready for issuance of notice-to-proceed with field installation pre-requisites.	15-Jul-15
Milestone 11	Commissioning Workplans	\$ 39,733	Milestone is declared complete upon OPG acceptance.	15-Sep-15
Milestone 12	Maintenance Procedures	\$ 39,733	Milestone is declared complete upon OPG acceptance.	15-Sep-15
Milestone 13	Modification Installation Workplans/Comprehensive Work Packages	\$ 79,467	Milestone is declared complete upon OPG acceptance.	15-Sep-15
Milestone 14	Release Quality Estimate - Resource Loaded Level 4 Schedule	\$ 79,467	Milestone is declared complete upon OPG acceptance.	15-Sep-15
Unit 2				
	Execution Phase Deliverables/Milestones	\$6,626,664		
Milestone 1	Site Mobilization	\$ 331,333	Construction Manager mobilized to site. Pre-Req work started.	1-Mar-16
Milestone 2	Tooling fabrication	\$ 331,333	Completion criteria as per the contract milestone schedule definition	15-Jul-16
Milestone 3	Execution Schedule Baselined and Accepted	\$ 198,800	Rev 0 Schedule Accepted in accordance with OPG governance.	1-Sep-16
Milestone 4	Completion of all Prerequisite activities prior breaker open for CT's replacement, condenser pre-req, Trombiks	\$ 265,067	W/O tasks Closed	1-Oct-16

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 5	CT/HV Bushings Removed	\$ 397,600	W/O tasks Closed	1-Mar-17
Milestone 6	Condenser Strut Repairs and seal replacement (Strut inspection, Strut repair, Seal replacement completed)	\$ 463,866	W/O tasks Closed / ITP sign off	1-Jun-17
Milestone 7	Pre-req execution complete and all tooling and material staged	\$ 530,133	Pre-req execution tasks closed and all tooling and material available for Turbine Generator Work Window.	1-Jun-17
Milestone 8	CTs Replacement Completion, ready for post maintenance testing	\$ 397,600	W/O tasks Closed	1-Jun-17
Milestone 9	Disassemble HP/LP/ Bearings (Ready for IMS Rotating Blade Inspection)	\$ 397,600	W/O tasks Closed	1-Jul-17
Milestone 10	Readiness for first DIRIS Inspection achieved	\$ 397,600	W/O tasks Closed	1-Jul-17
Milestone 11	MSR Work Complete Ready for layup Re-establishment	\$ 463,866	W/O tasks Closed	1-Sep-17
Milestone 12	Generator rotor removed	\$ 463,866	W/O tasks Closed	1-Sep-17
Milestone 13	All LP Rotors Removed	\$ 132,533	W/O tasks Closed	1-Sep-17
Milestone 14	All LP Rotors Reinstalled (HP & LP: All lower casing installed and spindles installed and partially recoupled)	\$ 331,333	W/O tasks Closed	1-Nov-17
Milestone 15	Generator Rotor Reinstalled (resting on lower halves of bearings 5 & 6)	\$ 198,800	W/O tasks Closed	1-Nov-17
Milestone 16	Ready for FRF post maintenance testing	\$ 198,800	W/O tasks Closed	1-Dec-17
Milestone 17	HP/LP: Installation of upper casing complete, all blade carrier alignment complete and box up complete final Concentricity check complete and successful	\$ 66,267	W/O tasks Closed, Final Concentricity check accepted	1-Feb-18
Milestone 18	Generator Air Hold Test Complete	\$ 66,267	W/O tasks Closed / Successful completion of test	1-Feb-18
Milestone 19	Unit Mechanical Completion	\$ 662,666	Per Contract Schedule Definition	1-Apr-18
Milestone 20	TGR CWP (excluding Layup) Closed, including disposition of all non-conformances	\$ 331,333	All W/O tasks Closed, TGR CWP closure including disposition of all non-conformances. Punch List of Open Items created	1-May-19
Unit 2 - Layup				
Execution Phase Deliverables/Milestones		\$140,320		
Milestone 1	Site Mobilization	\$ 16,838		1-Mar-16
Milestone 2	Tooling fabrication	\$ 18,242		15-Jul-16
Milestone 3	Execution Schedule Baselined and Accepted	\$ 18,242		1-Sep-16

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 4	Completion of all Prerequisite activities prior breaker open for CT's replacement, condenser pre-req, Trombiks	\$ 16,838	For respective milestone as applicable: AFS completed, W/O tasks Closed, CWP closure including disposition of all non-conformances.	1-Oct-16
Milestone 5	CT/HV Bushings Removed	\$ 16,838		1-Mar-17
Milestone 6	Condenser Strut Repairs and seal replacement (Strut inspection, Strut repair, Seal replacement completed)	\$ 18,242		1-Jun-17
Milestone 7	Pre-req execution complete and all tooling and material staged	\$ 18,242		1-Jun-17
Milestone 8	CTs Replacement Completion, ready for post maintenance testing	\$ 16,838		1-Jun-17

Unit 3				
Execution Phase Deliverables/Milestones		\$ 9,480,971		
Milestone 1	Site Mobilization	\$ 473,833	Construction Manager mobilized to site. Pre-Req work started.	1-Feb-19
Milestone 2	Execution Schedule Baselined and Accepted	\$ 193,846	Rev 0 Schedule accepted in accordance with OPG governance.	15-Apr-19
Milestone 3	Completion of all Prerequisite activities prior breaker open for CT's replacement, condenser pre-req, Trombiks	\$ 568,599	W/O tasks Closed	15-Oct-19
Milestone 4	Standalone Full Scope Maintenance Simulator (SFSMS) AFS Completed	\$ 473,833	AFS Accepted	31-Jan-18
Milestone 5	CT/HV Bushings Removed	\$ 284,300	W/O tasks Closed	13-Dec-19
Milestone 6	Condenser Strut Repairs and seal replacement (Strut inspection, Strut repair, Seal replacement completed)	\$ 473,833	W/O tasks Closed / ITP sign off	13-Jan-20
Milestone 7	Pre-req execution complete and all tooling and material staged	\$ 568,599	Pre-req execution tasks closed and all tooling and material available for Turbine Generator Work Window.	13-Jan-20
Milestone 8	CTs Replacement Completion, ready for post maintenance testing	\$ 568,599	W/O tasks Closed	13-Jan-20
Milestone 9	Disassemble HP/LP/ Bearings (Ready for IMS Rotating Blade Inspection)	\$ 568,599	W/O tasks Closed	13-Feb-20
Milestone 10	Readiness for first DIRIS Inspection achieved	\$ 379,066	W/O tasks Closed	13-Feb-20
Milestone 11	MSR Work Complete Ready for layup Re-establishment	\$ 473,833	W/O tasks Closed	13-Apr-20

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 12	Generator rotor removed	\$ 284,300	W/O tasks Closed	13-Apr-20
Milestone 13	Stator Removal Complete	\$ 284,300	Stator off the hook in DNGS loading bay, ready for transportation.	13-Apr-20
Milestone 14	All LP Rotors Removed	\$ 189,533	W/O tasks Closed	13-Apr-20
Milestone 15	All LP Rotors Reinstalled (HP & LP: All lower casing installed and spindles installed and partially recoupled)	\$ 189,533	W/O tasks Closed	13-Jun-20
Milestone 16	Stator Installation Complete	\$ 189,533	CCD Accepted and W/O tasks Closed	13-Jun-20
Milestone 17	Generator Rotor Reinstalled (resting on lower halves of bearings 5 & 6)	\$ 189,533	W/O tasks Closed	13-Jun-20
Milestone 18	Ready for FRF post maintenance testing	\$ 189,533	W/O tasks Closed	13-Jul-20
Milestone 19	HP/LP: Installation of upper casing complete, all blade carrier alignment complete and box up complete final Concentricity check complete and successful	\$ 189,533	W/O tasks Closed, Final Concentricity check accepted	13-Sep-20
Milestone 20	Generator Air Hold Test Complete	\$ 189,533	W/O tasks Closed / Successful completion of test	13-Sep-20
Milestone 21	Generator Auxiliaries and Field Instrumentation Installation Complete	\$ 189,533	Seal Oil I, II, III, SCW and H2 Skids CCD Completed and W/O tasks Closed	13-Nov-20
Milestone 22	Turbine Controls, TSS, and Hydraulics, and Field Instrumentation Installation Complete	\$ 189,533	CCD Completed and W/O tasks Closed	13-Nov-20
Milestone 23	Excitation Controls and Field Instrumentation Installation Complete	\$ 189,533	CCD Completed and W/O tasks Closed	13-Nov-20
Milestone 24	Generator Auxiliaries AFS Completed	\$ 189,533	AFS Accepted	13-Nov-20
Milestone 25	Turbine Controls, TSS, and Hydraulics AFS Completed	\$ 189,533	AFS Accepted	13-Nov-20
Milestone 26	Excitation Controls AFS Completed	\$ 189,533	AFS Accepted	13-Nov-20
Milestone 27	Unit Mechanical Completion	\$ 947,666	Per Contract Schedule Definition	13-Nov-20
Milestone 28	TGR CWP's (excluding Layup) Closed, including disposition of all non-conformances	\$ 473,833	All W/O tasks Closed, TGR CWP closure including disposition of all non-conformances. Punch List of Open Items created	1-Sep-22
Unit 3 - Layup				
Execution Phase Deliverables/Milestones		\$126,857		
Milestone 1	Turbine (HP; LP; MSR; Condenser) Systems Ready for Dry Air Purge	\$ 15,223	CCD Accepted	11-Nov-19

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 2	Generator Ready for Dry Air Purge & Generator Auxiliaries Layup Installed	\$ 16,491	CCD Accepted	11-Nov-19
Milestone 3	Seal Oil System Ready for Dry Air Purge Connection	\$ 16,491	CCD Accepted	11-Nov-19
Milestone 4	SCW Layup connection modification installed	\$ 15,223	AFS Completed	11-Nov-19
Milestone 5	SCW Ready for Dry Air Purge	\$ 15,223	CCD Accepted	11-Nov-19
Milestone 6	Turbine (HP; LP; MSR; Condenser) Systems restoration completed	\$ 16,491	CCD Accepted	4-Jul-22
Milestone 7	Generator & Auxiliaries Systems restoration completed	\$ 16,491	CCD Accepted	4-Jul-22
Milestone 8	Seal Oil System restoration completed	\$ 15,223	CCD Accepted	4-Jul-22

Unit 1				
Execution Phase Deliverables/Milestones		\$ 9,197,129		
Milestone 1	Site Mobilization	\$ 459,636	Construction Manager mobilized to site. Pre-Req work started.	29-Jul-20
Milestone 2	Execution Schedule Baselined and Accepted	\$ 188,273	Rev 0 Schedule accepted in accordance with OPG governance.	15-Dec-20
Milestone 3	Completion of all Prerequisite activities prior breaker open for CT's replacement, condenser pre-req, Trombiks	\$ 551,563	W/O tasks Closed	15-Mar-21
Milestone 4	Not Used			
Milestone 5	CT/HV Bushings Removed	\$ 275,781	W/O tasks Closed	17-May-21
Milestone 6	Condenser Strut Repairs and seal replacement (Strut inspection, Strut repair, Seal replacement completed)	\$ 459,636	W/O tasks Closed / ITP sign off	17-Jun-21
Milestone 7	Pre-req execution complete and all tooling and material staged	\$ 551,563	Pre-req execution tasks closed and all tooling and material available for Turbine Generator Work Window.	17-Jun-21
Milestone 8	CTs Replacement Completion, ready for post maintenance testing	\$ 551,563	W/O tasks Closed	17-Jun-21
Milestone 9	Disassemble HP/LP/ Bearings (Ready for IMS Rotating Blade Inspection)	\$ 551,563	W/O tasks Closed	17-Jul-21
Milestone 10	Readiness for first DIRIS Inspection achieved	\$ 367,708	W/O tasks Closed	17-Jul-21
Milestone 11	MSR Work Complete Ready for layup Re-establishment	\$ 459,636	W/O tasks Closed	1-Sep-21
Milestone 12	Generator rotor removed	\$ 643,490	W/O tasks Closed	1-Sep-21

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 13	Stator Removal Complete	\$ -	Stator off the hook in DNGS loading bay, ready for transportation.	
Milestone 14	All LP Rotors Removed	\$ 459,636	W/O tasks Closed	1-Sep-21
Milestone 15	All LP Rotors Reinstalled (HP & LP: All lower casing installed and spindles installed and partially recoupled)	\$ 459,636	W/O tasks Closed	1-Nov-21
Milestone 16	Stator Installation Complete	\$ -	CCD Accepted and W/O tasks Closed	
Milestone 17	Generator Rotor Reinstalled (resting on lower halves of bearings 5 & 6)	\$ 183,854	W/O tasks Closed	1-Nov-21
Milestone 18	Ready for FRF post maintenance testing	\$ 183,854	W/O tasks Closed	1-Dec-21
Milestone 19	HP/LP: Installation of upper casing complete, all blade carrier alignment complete and box up complete final Concentricity check complete and successful	\$ 183,854	W/O tasks Closed, Final Concentricity check accepted	1-Feb-22
Milestone 20	Generator Air Hold Test Complete	\$ 183,854	W/O tasks Closed / Successful completion of test	1-Feb-22
Milestone 21	Generator Auxiliaries and Field Instrumentation Installation Complete	\$ 183,854	Seal Oil I, II, III, SCW and H2 Skids CCD Completed and W/O tasks Closed	1-Apr-22
Milestone 22	Turbine Controls, TSS, and Hydraulics, and Field Instrumentation Installation Complete	\$ 183,854	CCD Completed and W/O tasks Closed	1-Apr-22
Milestone 23	Excitation Controls and Field Instrumentation Installation Complete	\$ 183,854	CCD Completed and W/O tasks Closed	1-Apr-22
Milestone 24	Generator Auxiliaries AFS Completed	\$ 183,854	AFS Accepted	1-Apr-22
Milestone 25	Turbine Controls, TSS, and Hydraulics AFS Completed	\$ 183,854	AFS Accepted	1-Apr-22
Milestone 26	Excitation Controls AFS Completed	\$ 183,854	AFS Accepted	1-Apr-22
Milestone 27	Unit Mechanical Completion	\$ 919,271	Per Contract Schedule Definition	1-Apr-22
Milestone 28	TGR CWP (excluding Layup) Closed, including disposition of all non-conformances	\$ 459,636	All W/O tasks Closed, TGR CWP closure including disposition of all non-conformances. Punch List of Open Items created	1-Jan-24
	Unit 1 - Layup			
	Execution Phase Deliverables/Milestones	\$124,388		
Milestone 1	Turbine (HP; LP; MSR; Condenser) Systems Ready for Dry Air Purge	\$ 14,927	CCD Accepted	20-Apr-21
Milestone 2	Generator Ready for Dry Air Purge & Generator Auxiliaries Layup Installed	\$ 16,170	CCD Accepted	20-Apr-21

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 3	Seal Oil System Ready for Dry Air Purge Connection	\$ 16,170	CCD Accepted	20-Apr-21
Milestone 4	SCW Layup connection modification installed	\$ 14,927	AFS Completed	20-Apr-21
Milestone 5	SCW Ready for Dry Air Purge	\$ 14,927	CCD Accepted	20-Apr-21
Milestone 6	Turbine (HP; LP; MSR; Condenser) Systems restoration completed	\$ 16,170	CCD Accepted	18-Jul-23
Milestone 7	Generator & Auxiliaries Systems restoration completed	\$ 16,170	CCD Accepted	18-Jul-23
Milestone 8	Seal Oil System restoration completed	\$ 14,927	CCD Accepted	18-Jul-23

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Unit 4				
	Execution Phase Deliverables/Milestones	\$ 10,161,917		
Milestone 1	Site Mobilization	\$ 507,880	Construction Manager mobilized to site. Pre-Req work started.	28-Jan-22
Milestone 2	Execution Schedule Baselined and Accepted	\$ 207,466	Rev 0 Schedule accepted in accordance with OPG governance.	17-Apr-22
Milestone 3	Completion of all Prerequisite activities prior breaker open for CT's replacement, condenser pre-req, Trombiks	\$ 609,456	W/O tasks Closed	17-Oct-22
Milestone 4	Not Used			
Milestone 5	CT/HV Bushings Removed	\$ 304,728	W/O tasks Closed	1-Apr-24
Milestone 6	Condenser Strut Repairs and seal replacement (Strut inspection, Strut repair, Seal replacement completed)	\$ 507,880	W/O tasks Closed / ITP sign off	1-May-23
Milestone 7	Pre-req execution complete and all tooling and material staged	\$ 609,456	Pre-req execution tasks closed and all tooling and material available for Turbine Generator Work Window.	1-May-23
Milestone 8	CTs Replacement Completion, ready for post maintenance testing	\$ 609,456	W/O tasks Closed	1-May-23
Milestone 9	Disassemble HP/LP/ Bearings (Ready for IMS Rotating Blade Inspection)	\$ 609,456	W/O tasks Closed	1-Jun-23
Milestone 10	Readiness for first DIRIS Inspection achieved	\$ 406,304	W/O tasks Closed	1-Jun-23
Milestone 11	MSR Work Complete Ready for layup Re-establishment	\$ 507,880	W/O tasks Closed	1-Aug-23
Milestone 12	Generator rotor removed	\$ 507,880	W/O tasks Closed	1-Aug-23
Milestone 13	Stator Removal Complete	\$ 304,728	Stator off the hook in DNGS loading bay, ready for transportation.	1-Jun-23
Milestone 14	All LP Rotors Removed	\$ 203,152	W/O tasks Closed	1-Aug-23
Milestone 15	All LP Rotors Reinstalled (HP & LP: All lower casing installed and spindles installed and partially recoupled)	\$ 507,880	W/O tasks Closed	1-Oct-23
Milestone 16	Stator Installation Complete	\$ 203,152	CCD Accepted and W/O tasks Closed	1-Oct-23
Milestone 17	Generator Rotor Reinstalled (resting on lower halves of bearings 5 & 6)	\$ 203,152	W/O tasks Closed	1-Oct-23

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 18	Ready for FRF post maintenance testing	\$ 203,152	W/O tasks Closed	1-Nov-23
Milestone 19	HP/LP: Installation of upper casing complete, all blade carrier alignment complete and box up complete final Concentricity check complete and successful	\$ 203,152	W/O tasks Closed, Final Concentricity check accepted	1-Jan-24
Milestone 20	Generator Air Hold Test Complete	\$ 203,152	W/O tasks Closed / Successful completion of test	1-Jan-24
Milestone 21	Generator Auxiliaries and Field Instrumentation Installation Complete	\$ 203,152	Seal Oil I, II, III, SCW and H2 Skids CCD Completed and W/O tasks Closed	1-Mar-24
Milestone 22	Turbine Controls, TSS, and Hydraulics, and Field Instrumentation Installation Complete	\$ 203,152	CCD Completed and W/O tasks Closed	1-Mar-24
Milestone 23	Excitation Controls and Field Instrumentation Installation Complete	\$ 203,152	CCD Completed and W/O tasks Closed	1-Mar-24
Milestone 24	Generator Auxiliaries AFS Completed	\$ 203,152	AFS Accepted	1-Mar-24
Milestone 25	Turbine Controls, TSS, and Hydraulics AFS Completed	\$ 203,152	AFS Accepted	1-Mar-24
Milestone 26	Excitation Controls AFS Completed	\$ 203,152	AFS Accepted	1-Mar-24
Milestone 27	Unit Mechanical Completion	\$ 1,015,760	Per Contract Schedule Definition	1-Mar-24
Milestone 28	TGR CWP's (excluding Layup) Closed, including disposition of all non-conformances	\$ 507,880	All W/O tasks Closed, TGR CWP closure including disposition of all non-conformances. Punch List of Open Items created	1-Oct-25
Unit 4 - Layup				
	Execution Phase Deliverables/Milestones	\$ 136,662		
Milestone 1	Turbine (HP; LP; MSR; Condenser) Systems Ready for Dry Air Purge	\$ 16,399	CCD Accepted	21-Nov-22
Milestone 2	Generator Ready for Dry Air Purge & Generator Auxiliaries Layup Installed	\$ 17,766	CCD Accepted	21-Nov-22
Milestone 3	Seal Oil System Ready for Dry Air Purge Connection	\$ 17,766	CCD Accepted	21-Nov-22
Milestone 4	SCW Layup connection modification installed	\$ 16,399	AFS Completed	21-Nov-22
Milestone 5	SCW Ready for Dry Air Purge	\$ 16,399	CCD Accepted	21-Nov-22
Milestone 6	Turbine (HP; LP; MSR; Condenser) Systems restoration completed	\$ 17,766	CCD Accepted	15-Apr-25
Milestone 7	Generator & Auxiliaries Systems restoration completed	\$ 17,766	CCD Accepted	15-Apr-25
Milestone 8	Seal Oil System restoration completed	\$ 16,399	CCD Accepted	15-Apr-25

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
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Execution Planning Phase - Unit 3				
Execution Phase Deliverables/Milestones		\$5,003,293		
Milestone 1	Initial Work Assessment(s)	\$ 500,329	Milestone is declared complete upon entering the information in the required OPG work management system.	23-Nov-17
Milestone 2	Submittal of Baseline Execution Planning Phase Level 3 Schedule	\$ 250,165	Milestone is declared complete upon OPG acceptance.	26-Oct-16
Milestone 3	75% Submittals of Design EC's for Turbine Controls	\$ 500,329	Milestone is declared complete upon OPG acceptance.	13-Oct-17
Milestone 4	75% Submittals of Design EC's for Generator Refurbishment	\$ 500,329	Milestone is declared complete upon OPG acceptance.	29-Jan-18
Milestone 5	Stator Lifting, Craning, and Rigging Plan	\$ 500,329	Milestone is declared complete upon OPG acceptance.	29-Jan-18
Milestone 6	75% Submittals of Design EC's for Excitation Controls	\$ 500,329	Milestone is declared complete upon OPG acceptance.	18-Oct-17
Milestone 7	Final Submittals of Design EC's for Generator Refurbishment	\$ 250,165	Milestone is declared complete upon OPG acceptance.	13-Mar-18
Milestone 8	Static and Dynamic Commissioning Requirements	\$ 250,165	Milestone is declared complete upon OPG acceptance.	16-Mar-18
Milestone 9	Final Submittals of Design EC's for Excitation Controls	\$ 250,165	Milestone is declared complete upon OPG acceptance.	28-Nov-17
Milestone 10	Final Submittals of Design EC's for Turbine Controls	\$ 250,165	Milestone is declared complete upon OPG acceptance.	27-Nov-17
Milestone 11	Engineering Change Control / Engineered Tooling Documentaion	\$ 250,165	The milestone is declared complete upon OPG acceptance of all design packages and related documentation / information to be ready for issuance of notice-to-proceed with field installation pre-requisites.	12-Oct-18
Milestone 12	Modifications Installation Work Plans	\$ 250,165	Milestone is declared complete upon OPG acceptance.	25-May-18
Milestone 13	Maintenance Procedures / Comprehensive Work Packages	\$ 250,165	Milestone is declared complete upon OPG acceptance.	25-Apr-18
Milestone 14	Technical Procedure Action Requests (TPAR) Submitted	\$ 250,165	Milestone is declared complete upon OPG acceptance.	12-Oct-18
Milestone 15	Training Plan	\$ 250,165	Preparation/submission of Training Plan as per COIR requirements. Milestone is declared complete upon OPG acceptance.	6-Jul-17

Execution Planning Phase - Unit 1				
Execution Phase Deliverables/Milestones		\$5,894,900		
Milestone 1	Initial Work Assessment(s)	\$ 589,490	Milestone is declared complete upon entering the information in the required OPG work management system.	8-May-19

Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 2	Submittal of Baseline Execution Planning Phase Level 3 Schedule	\$ 353,694	Milestone is declared complete upon OPG acceptance.	25-Apr-18
Milestone 3	75% Submittals of Design EC's for Turbine Controls	\$ 766,337	Milestone is declared complete upon OPG acceptance.	28-Mar-19
Milestone 4	75% Submittals of Design EC's for Generator Refurbishment	\$ 766,337	Milestone is declared complete upon OPG acceptance.	27-Jun-19
Milestone 5	Not Used			
Milestone 6	75% Submittals of Design EC's for Excitation Controls	\$ 766,337	Milestone is declared complete upon OPG acceptance.	2-Apr-19
Milestone 7	Final Submittals of Design EC's for Generator Refurbishment	\$ 294,745	Milestone is declared complete upon OPG acceptance.	8-Aug-19
Milestone 8	Static and Dynamic Commissioning Requirements	\$ 294,745	Milestone is declared complete upon OPG acceptance.	13-Aug-19
Milestone 9	Final Submittals of Design EC's for Excitation Controls	\$ 294,745	Milestone is declared complete upon OPG acceptance.	13-May-19
Milestone 10	Final Submittals of Design EC's for Turbine Controls	\$ 294,745	Milestone is declared complete upon OPG acceptance.	10-May-19
Milestone 11	Engineering Change Control / Engineered Tooling Documentaion	\$ 294,745	The milestone is declared complete upon OPG acceptance of all design packages and related documentation / information to be ready for issuance of notice-to-proceed with field installation pre-requisites.	5-Mar-20
Milestone 12	Modifications Installation Work Plans	\$ 294,745	Milestone is declared complete upon OPG acceptance.	17-Oct-19
Milestone 13	Maintenance Procedures / Comprehensive Work Packages	\$ 294,745	Milestone is declared complete upon OPG acceptance.	18-Sep-19
Milestone 14	Technical Procedure Action Requests (TPAR) Submitted	\$ 294,745	Milestone is declared complete upon OPG acceptance.	5-Mar-20
Milestone 15	Training Plan	\$ 294,745	Preparation/submission of Training Plan as per COIR requirements. Milestone is declared complete upon OPG acceptance.	19-Dec-18

Execution Planning Phase - Unit 4				
Execution Phase Deliverables/Milestones		\$6,013,203		
Milestone 1	Initial Work Assessment(s)	\$ 601,320	Milestone is declared complete upon entering the information in the required OPG work management system.	5-Nov-20
Milestone 2	Submittal of Baseline Execution Planning Phase Level 3 Schedule	\$ 360,792	Milestone is declared complete upon OPG acceptance.	30-Oct-19
Milestone 3	75% Submittals of Design EC's for Turbine Controls	\$ 781,716	Milestone is declared complete upon OPG acceptance.	28-Sep-20
Milestone 4	75% Submittals of Design EC's for Generator Refurbishment	\$ 781,716	Milestone is declared complete upon OPG acceptance.	28-Dec-20
Milestone 5	Not Used			
Milestone 6	75% Submittals of Design EC's for Excitation Controls	\$ 781,716	Milestone is declared complete upon OPG acceptance.	1-Oct-20
Milestone 7	Final Submittals of Design EC's for Generator Refurbishment	\$ 300,660	Milestone is declared complete upon OPG acceptance.	11-Feb-21

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Darlington Nuclear Generating Station Turbine Generator Refurbishment Project



Attachment 7.1(11) - Milestone Payment Schedule for Definition Phase and Execution Phase Fixed Fee

Reference	Element of Work	Fixed Fee Payment Breakdown by Milestone	Payment Milestone Completion Criteria	Contract Schedule/ Milestone Date
Milestone 8	Static and Dynamic Commissioning Requirements	\$ 300,660	Milestone is declared complete upon OPG acceptance.	11-Feb-21
Milestone 9	Final Submittals of Design EC's for Excitation Controls	\$ 300,660	Milestone is declared complete upon OPG acceptance.	11-Nov-20
Milestone 10	Final Submittals of Design EC's for Turbine Controls	\$ 300,660	Milestone is declared complete upon OPG acceptance.	10-Nov-20
Milestone 11	Engineering Change Control / Engineered Tooling Documentaion	\$ 300,660	The milestone is declared complete upon OPG acceptance of all design packages and related documentation / information to be ready for issuance of notice-to-proceed with field installation pre-requisites.	6-Sep-21
Milestone 12	Modifications Installation Work Plans	\$ 300,660	Milestone is declared complete upon OPG acceptance.	19-Apr-21
Milestone 13	Maintenance Procedures / Comprehensive Work Packages	\$ 300,660	Milestone is declared complete upon OPG acceptance.	18-Mar-21
Milestone 14	Technical Procedure Action Requests (TPAR) Submitted	\$ 300,660	Milestone is declared complete upon OPG acceptance.	6-Sep-21
Milestone 15	Training Plan	\$ 300,660	Preparation/submission of Training Plan as per COIR requirements. Milestone is declared complete upon OPG acceptance.	24-Jun-20

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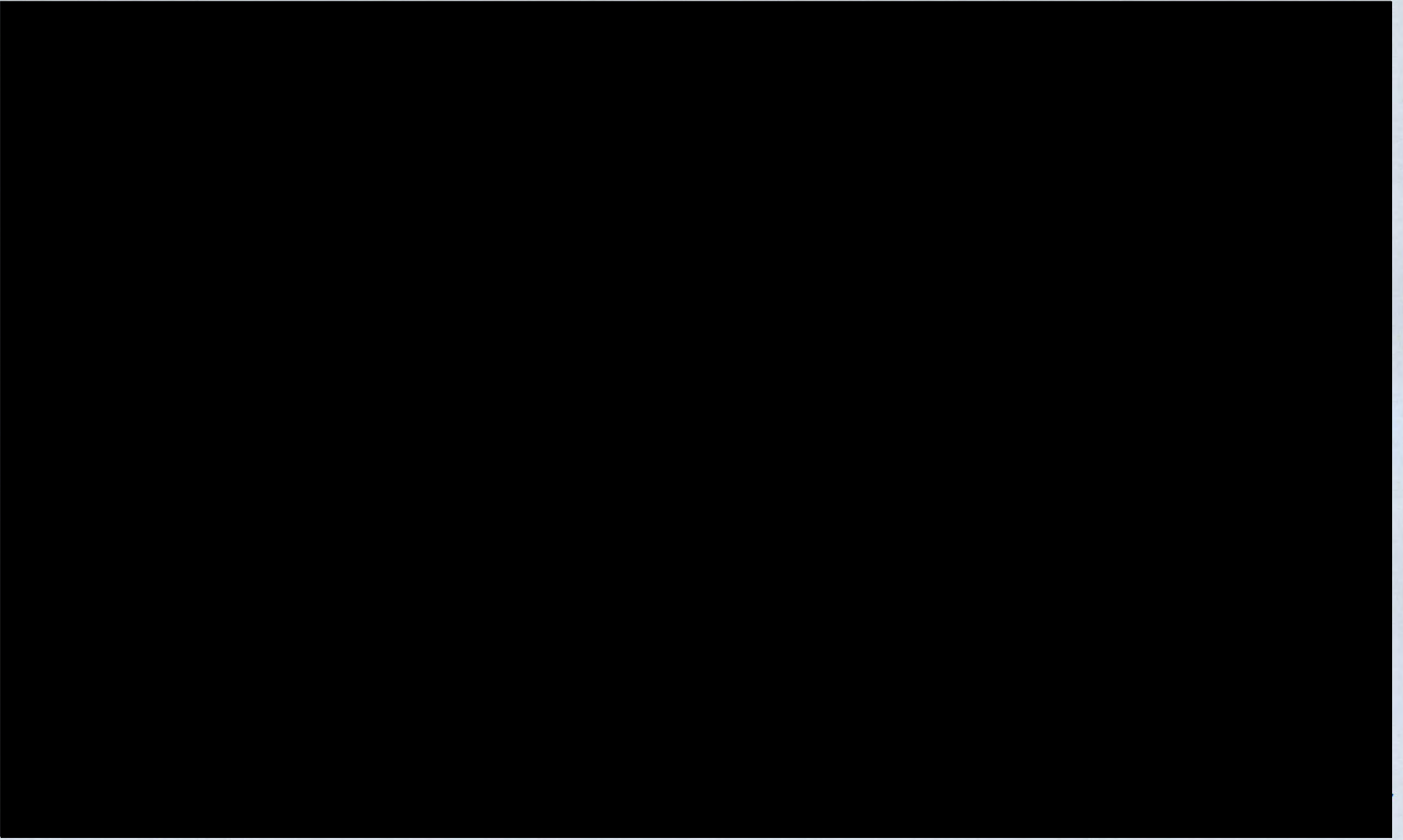
Darlington Nuclear Generating Station Turbine Generator Refurbishment Project

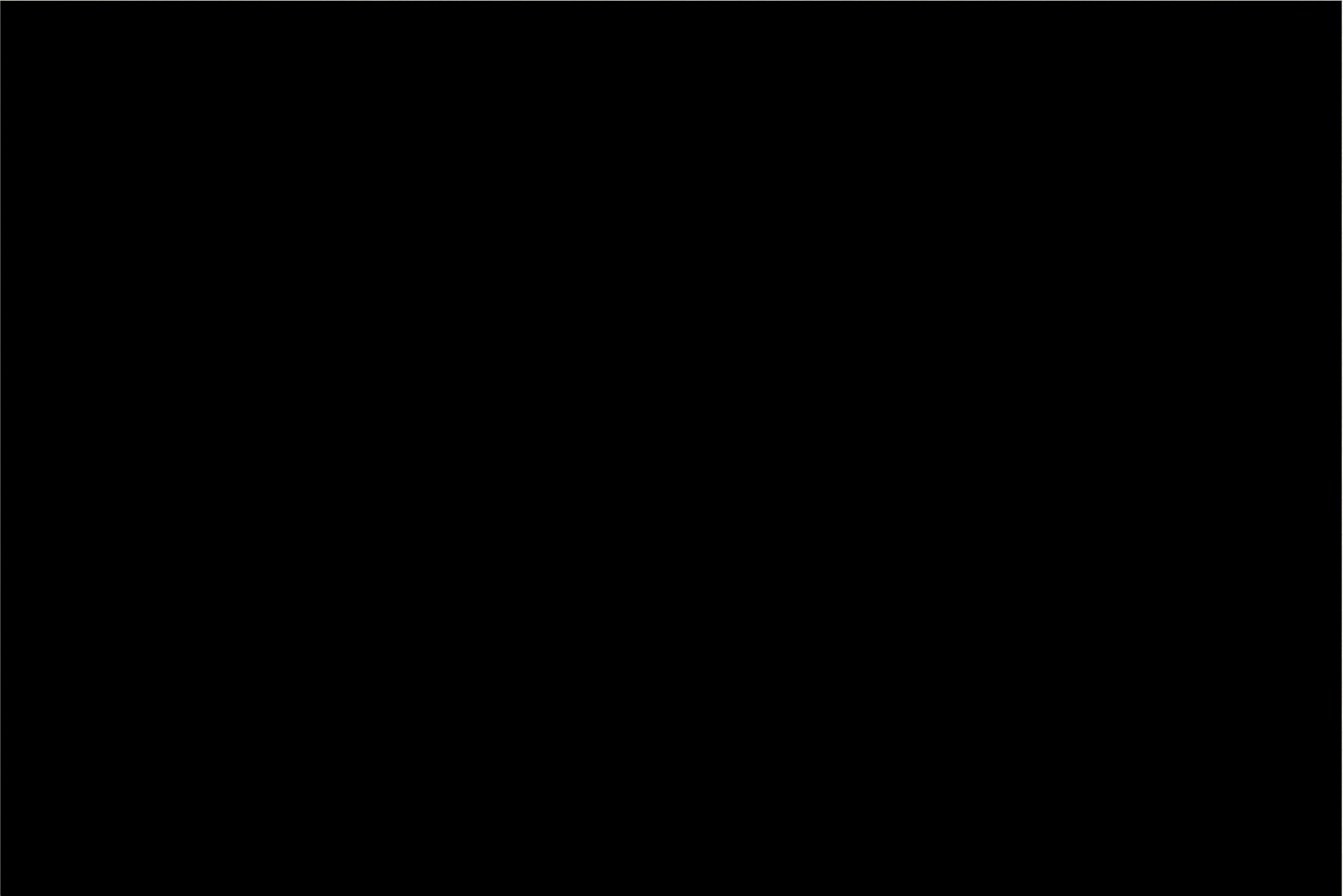


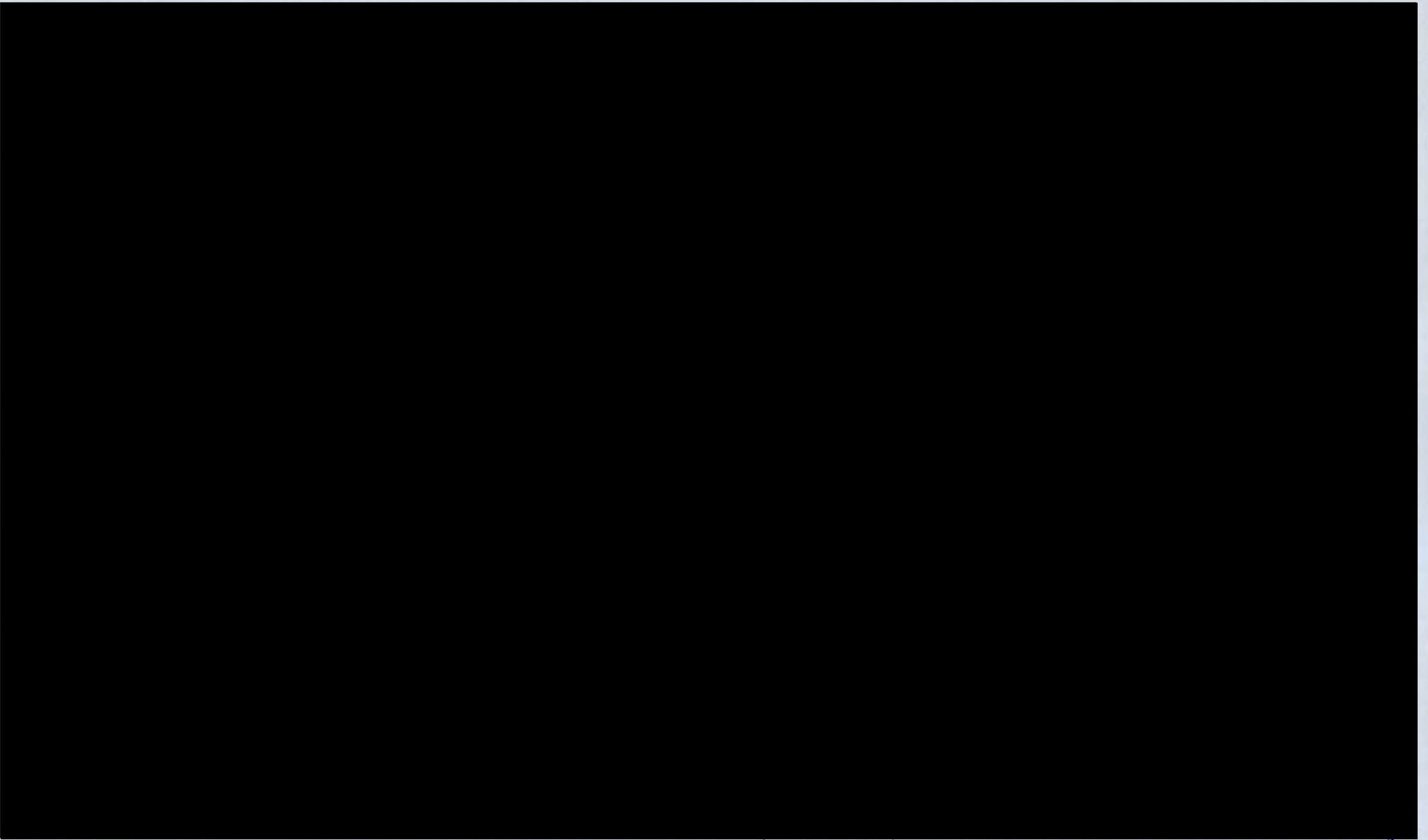
Attachment 7.1(12) - CPP / EI Contributions

Canada Pension Plan (CPP)							
Year	Max. Annual Pensionable Earnings	Basic Exemption	Maximum Contributory Earnings	Employee Contribution Rate	Max. Annual Employee Contribution	Max. Annual Self - Employed Contribution	
	\$	\$	\$	%	\$	\$	
2015 (estimated)	53,900	3,500	50,400	4.95	2,494.80	4,989.60	
2014 (estimated)	52,500	3,500	49,000	4.95	2,425.50	4,851.00	
2013	51,100	3,500	47,600	4.95	2,356.20	4,712.40	
2012	50,100	3,500	46,600	4.95	2,306.70	4,613.40	
2011	48,300	3,500	44,800	4.95	2,217.60	4,435.20	
2010	47,200	3,500	43,700	4.95	2,163.15	4,326.30	
2009	46,300	3,500	42,800	4.95	2,118.60	4,237.20	
2008	44,900	3,500	41,400	4.95	2,049.30	4,098.60	
2007	43,700	3,500	40,200	4.95	1,989.90	3,979.80	
2006	42,100	3,500	38,600	4.95	1,910.70	3,821.40	
2005	41,100	3,500	37,600	4.95	1,861.20	3,722.40	
2004	40,500	3,500	37,000	4.95	1,831.50	3,663.00	
2003	39,900	3,500	36,400	4.95	1,801.80	3,603.60	
2002	39,100	3,500	35,600	4.70	1,673.20	3,346.40	
2001	38,300	3,500	34,800	4.30	1,496.40	2,992.80	
2000	37,600	3,500	34,100	3.90	1,329.90	2,659.80	
1999	37,400	3,500	33,900	3.50	1,186.50	2,373.00	
1998	36,900	3,500	33,400	3.20	1,068.80	2,137.60	
1997	35,800	3,500	32,300	2.93	944.78	1,889.55	
Source: http://www.cra-arc.gc.ca/tx/bsnss/tpcs/pyrll/clcltng/cpp-rpc/cnt-chrt-pf-eng.html							
Employment Insurance (EI)							
Year	Max. Annual Insurable Earnings	Rate		Max. Annual Employee Premium		Max. Annual Employer Premium (1.4 x Employee Premium)	
		Federal	Quebec (not used)	Federal	Quebec (not used)	Federal	Quebec (not used)
	\$	%	%	\$	\$	\$	\$
2015 (estimated)	50,000	1.88	1.52	940.00	760.00	1,316.00	1,064.00
2014 (estimated)	48,700	1.88	1.52	915.56	740.24	1,281.78	1,036.34
2013	47,400	1.88	1.52	891.12	720.48	1,247.57	1,008.67
2012	45,900	1.83	1.47	839.97	674.73	1,175.96	944.62
2011	44,200	1.78	1.41	786.76	623.22	1,101.46	872.51
2010	43,200	1.73	1.36	747.36	587.52	1,046.30	822.53
2009	42,300	1.73	1.38	731.79	583.74	1,024.51	817.24
2008	41,100	1.73	1.39	711.03	571.29	995.44	799.81
2007	40,000	1.80	1.46	720.00	584.00	1,008.00	817.60
2006	39,000	1.87	1.53	729.30	596.70	1,021.02	835.38
2005	39,000	1.95	N/A	760.50	N/A	1,064.70	N/A
2004	39,000	1.98	N/A	772.20	N/A	1,081.08	N/A
2003	39,000	2.10	N/A	819.00	N/A	1,146.60	N/A
2002	39,000	2.20	N/A	858.00	N/A	1,201.20	N/A
2001	39,000	2.25	N/A	877.50	N/A	1,228.50	N/A
2000	39,000	2.40	N/A	936.00	N/A	1,310.40	N/A
1999	39,000	2.55	N/A	994.50	N/A	1,392.30	N/A
1998	39,000	2.70	N/A	1,053.00	N/A	1,474.20	N/A
1997	39,000	2.90	N/A	1,131.00	N/A	1,583.40	N/A
Source: http://www.cra-arc.gc.ca/tx/bsnss/tpcs/pyrll/clcltng/ei/cnt-chrt-pf-eng.html							

Attachment 7.1(13) – Cost Allocation Table



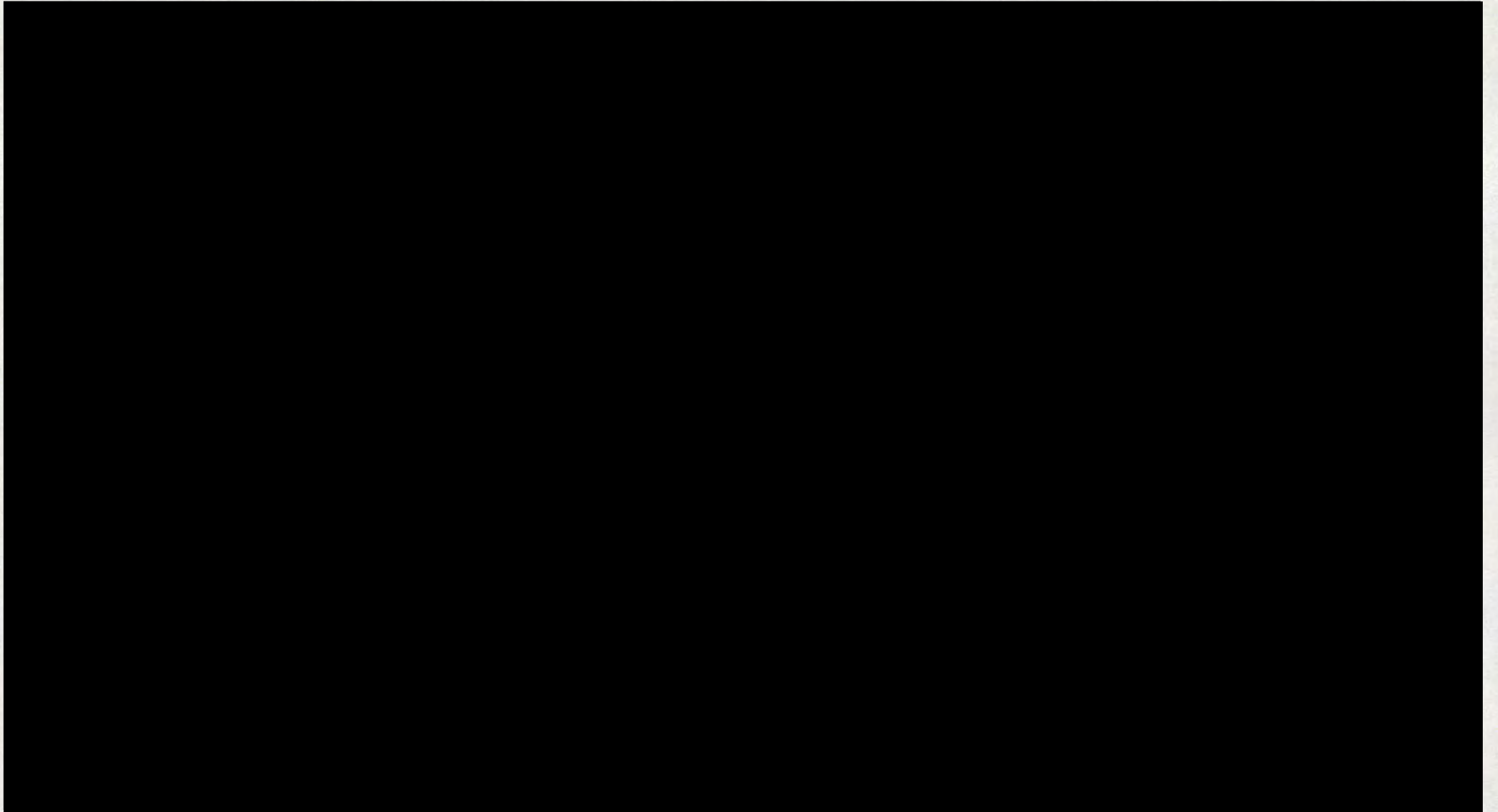




Amendment No. 2 to the Engineering, Procurement and Construction Agreement

for the Turbine Generator Refurbishment Project made as of January 22, 2014

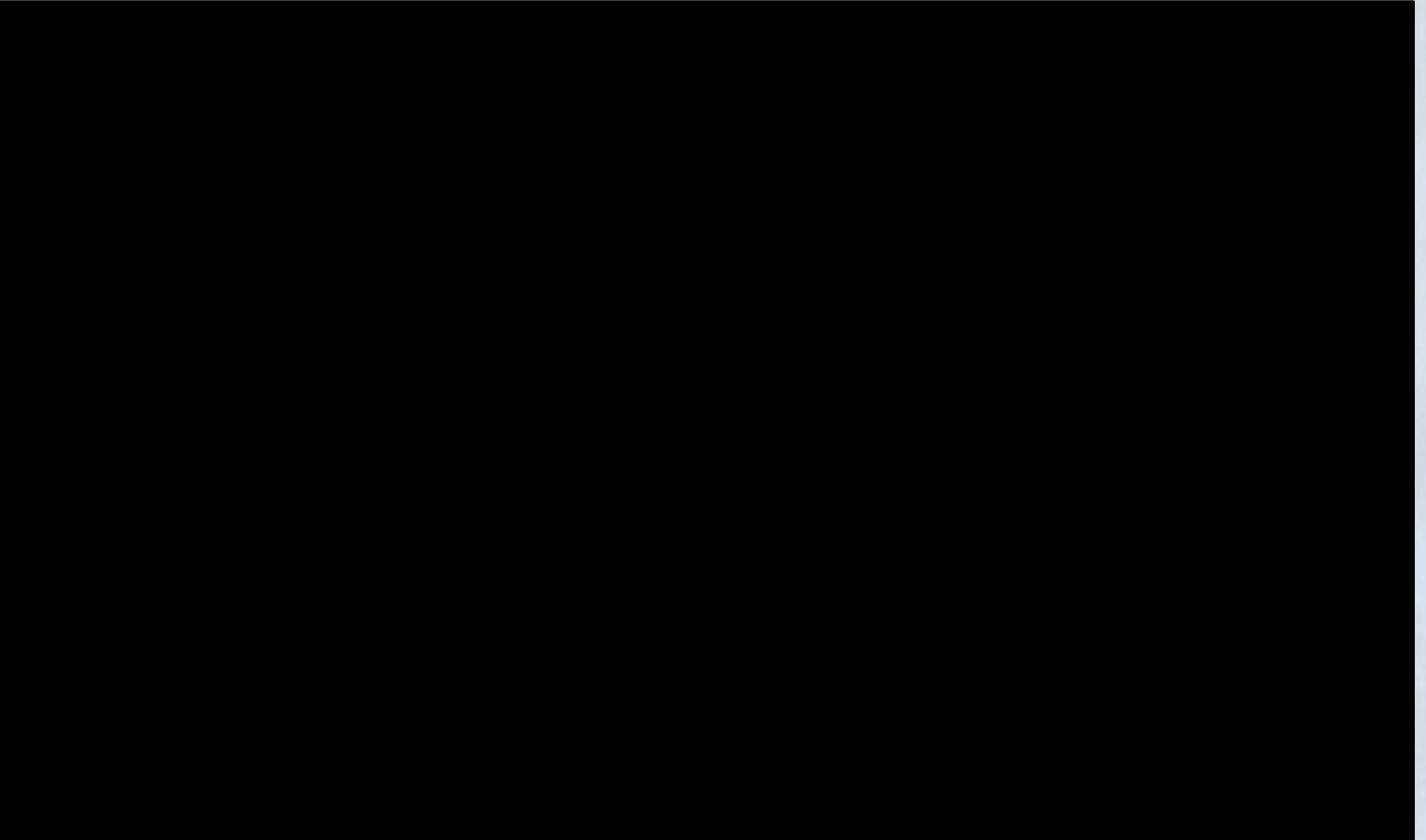
DNGS-REFURB-232344



*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

DNGS-REFURB-232344

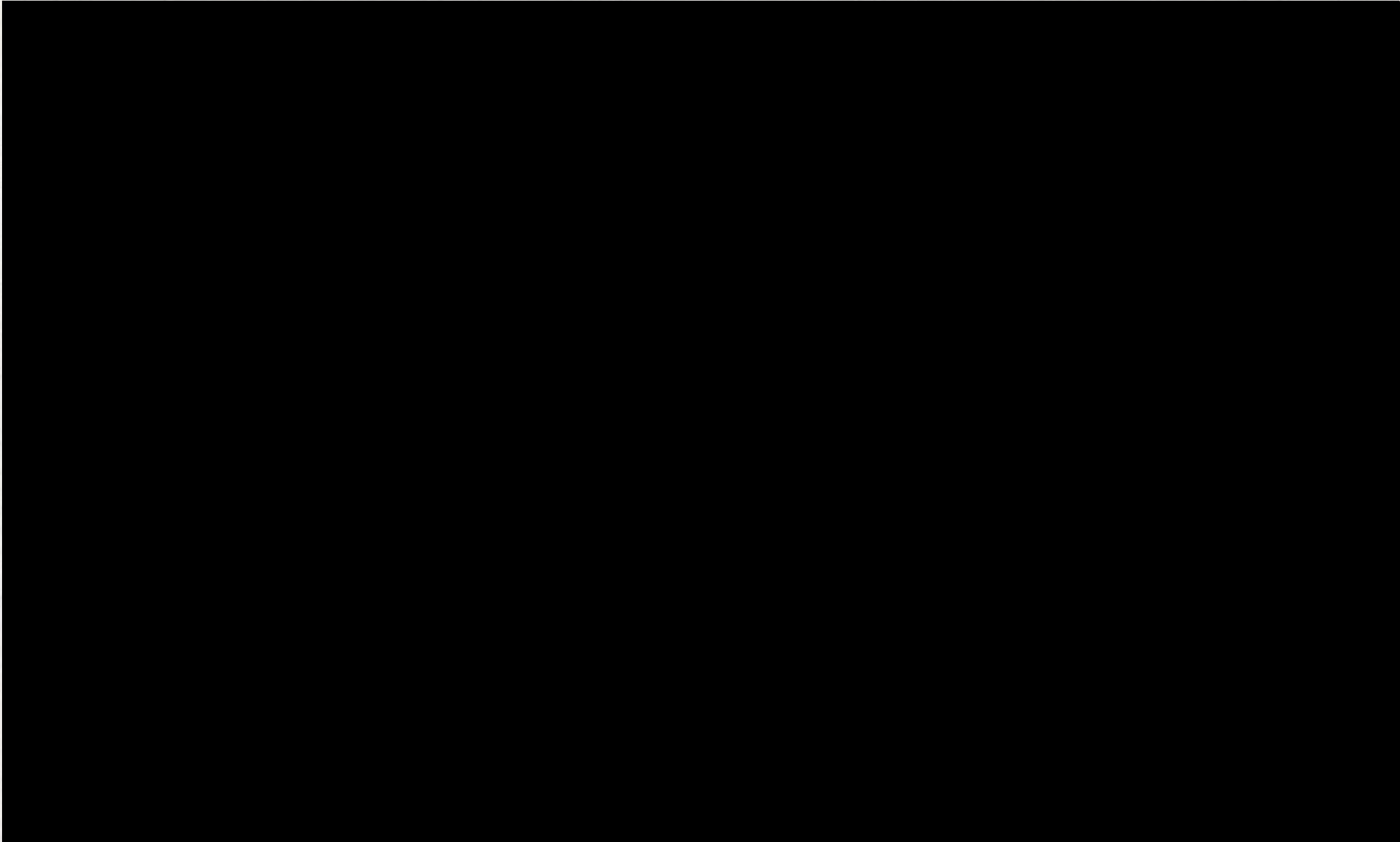
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*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

DNGS-REFURB-232344

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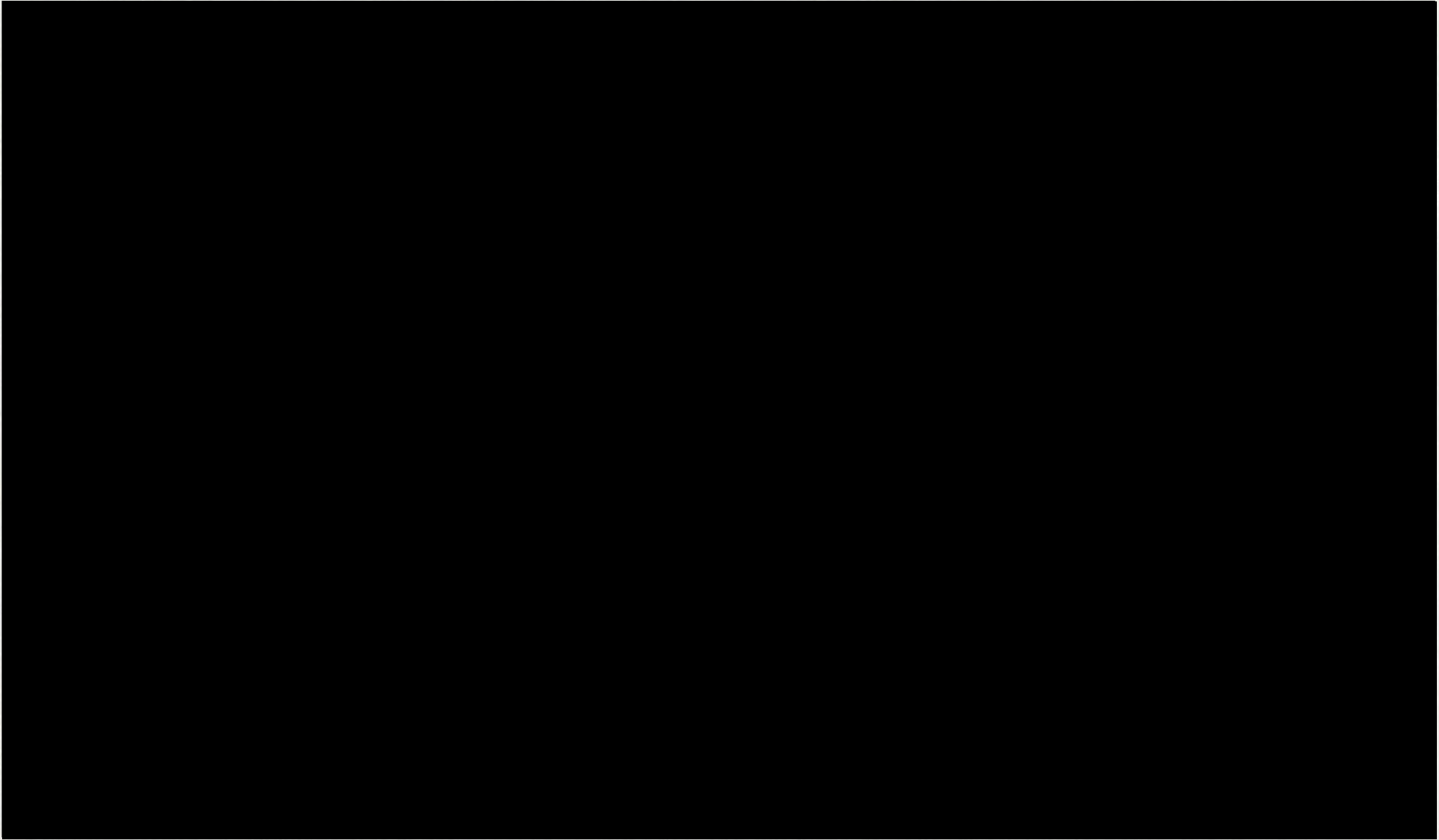
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for the Turbine Generator Refurbishment Project made as of January 22, 2014*

DNGS-REFURB-232344

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*Amendment No. 2 to the Engineering, Procurement and Construction Agreement
for the Turbine Generator Refurbishment Project made as of January 22, 2014*

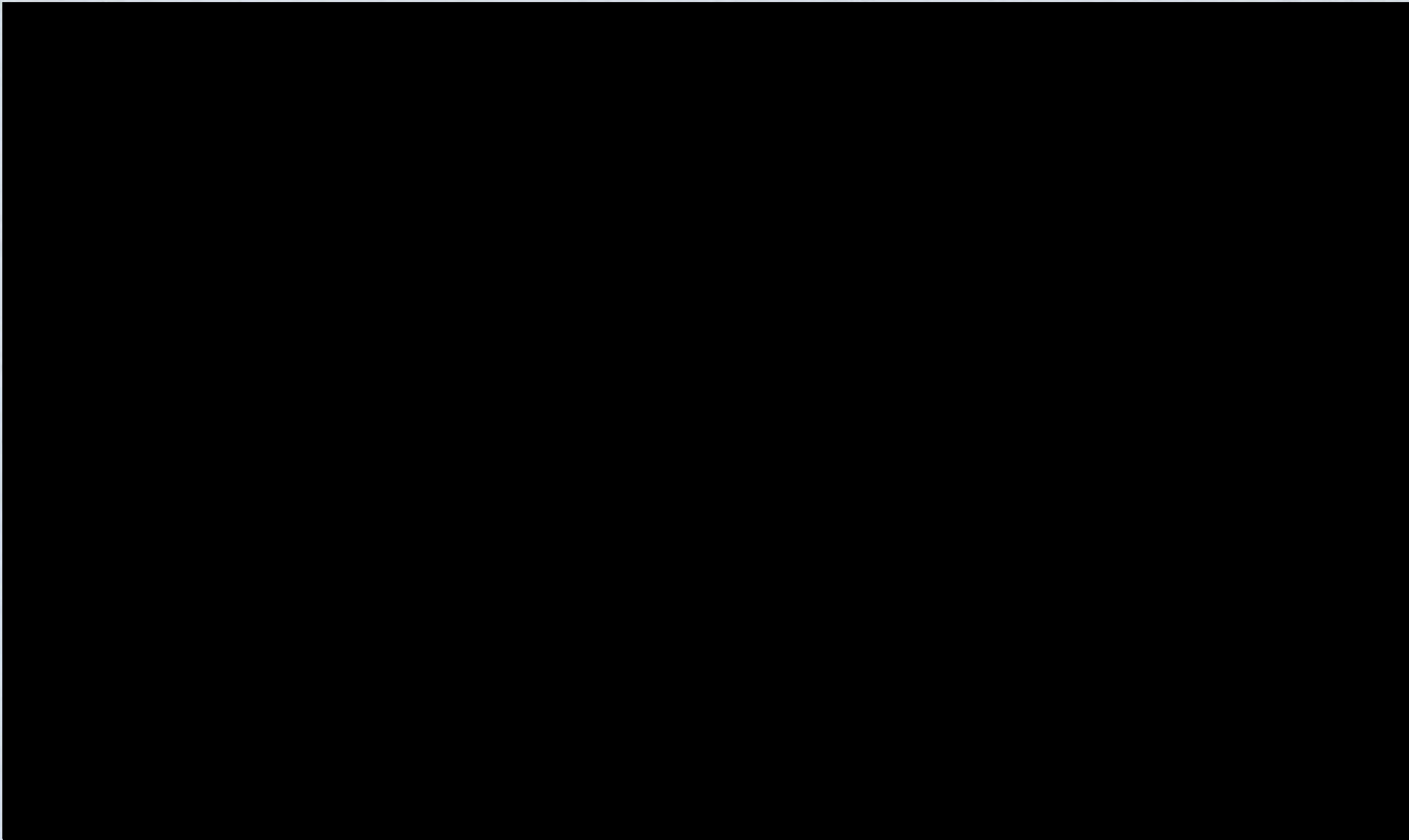
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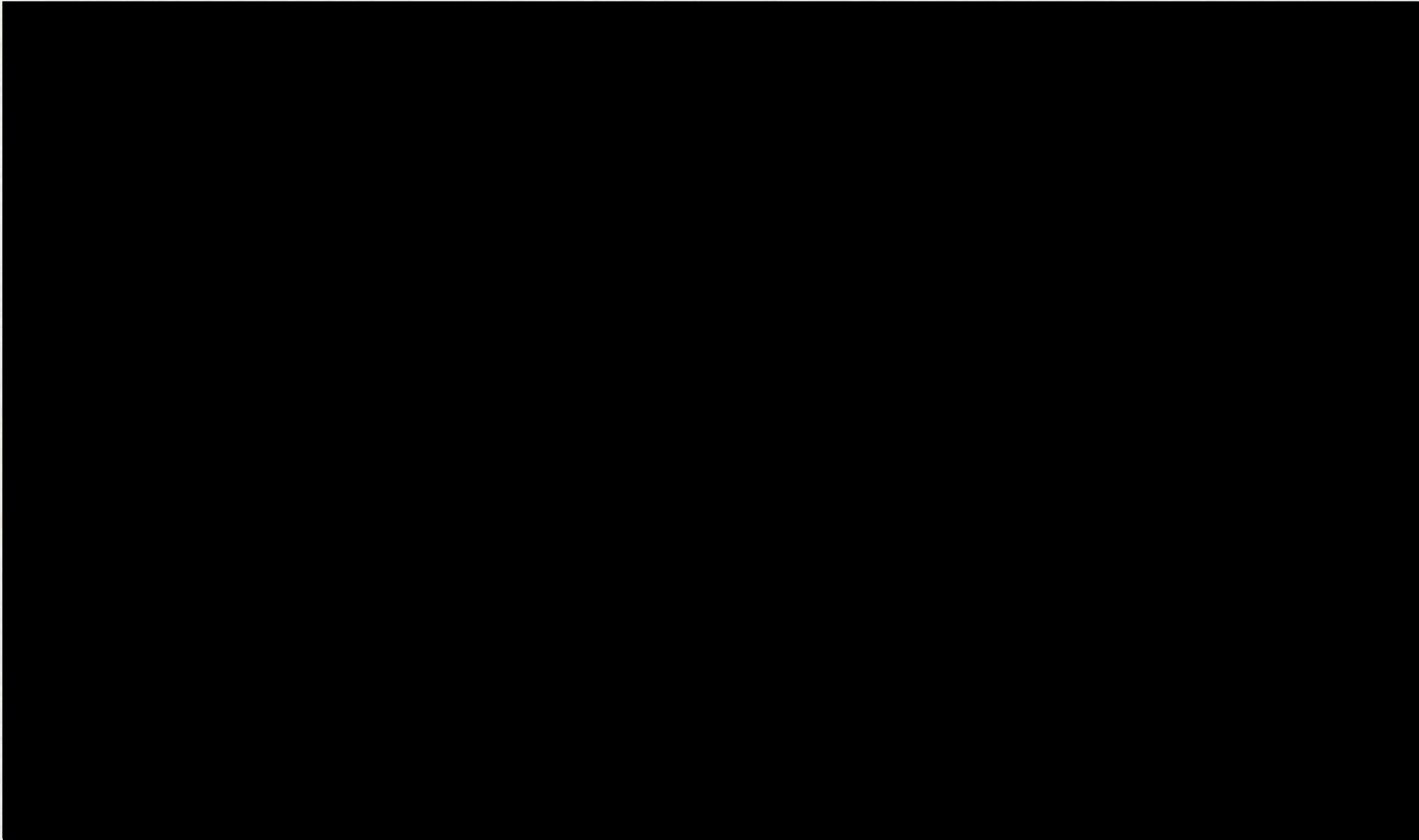
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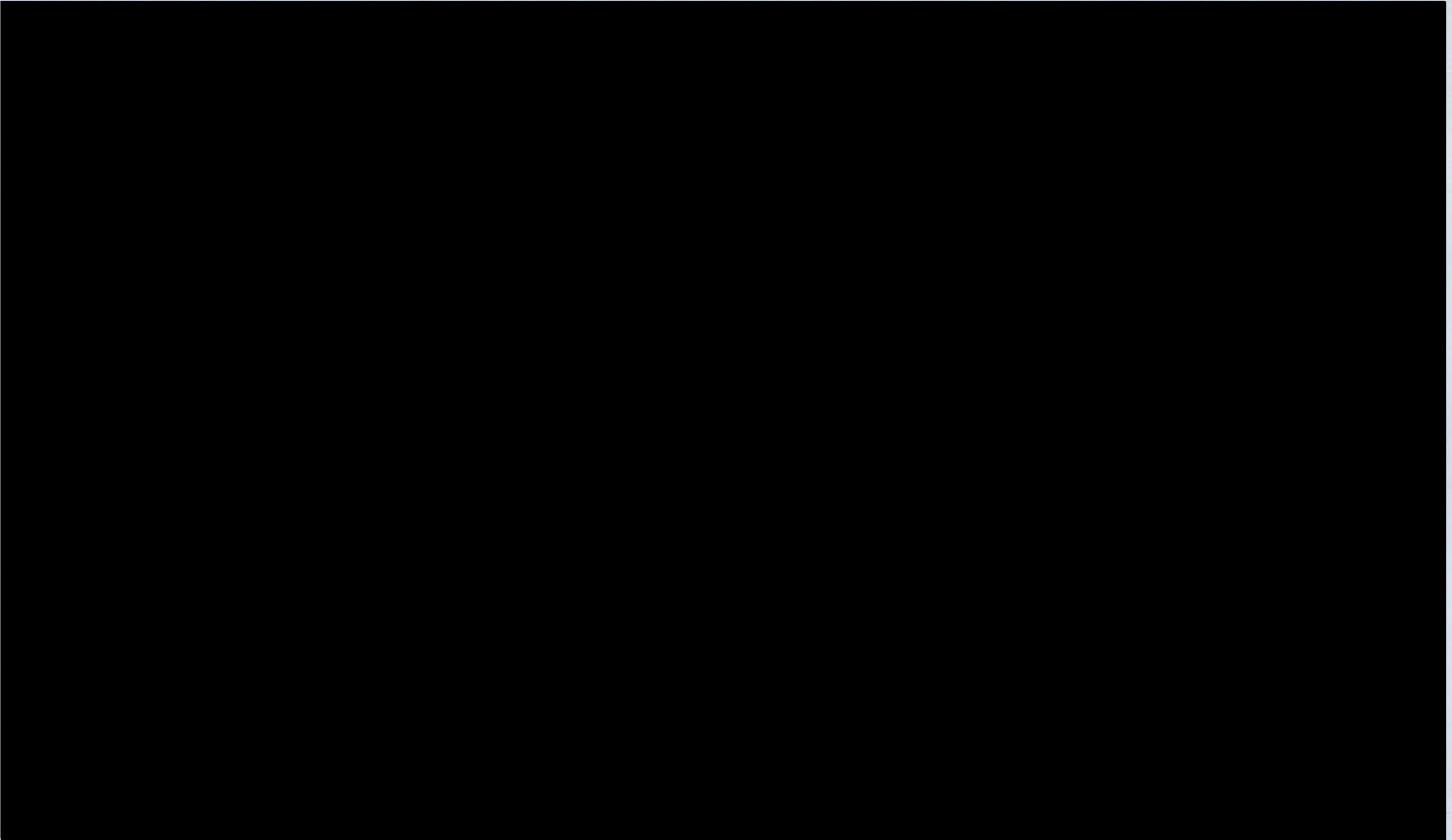
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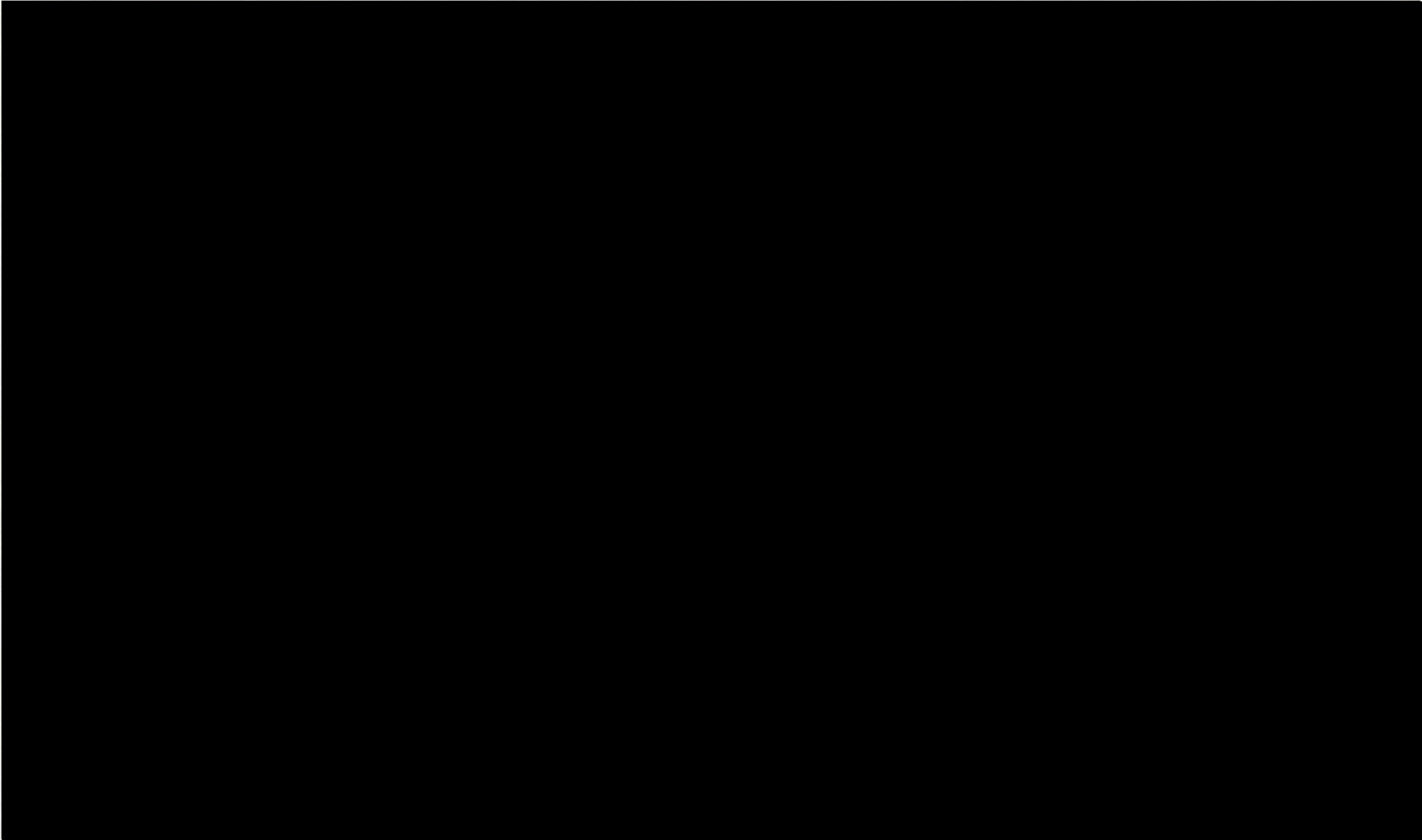
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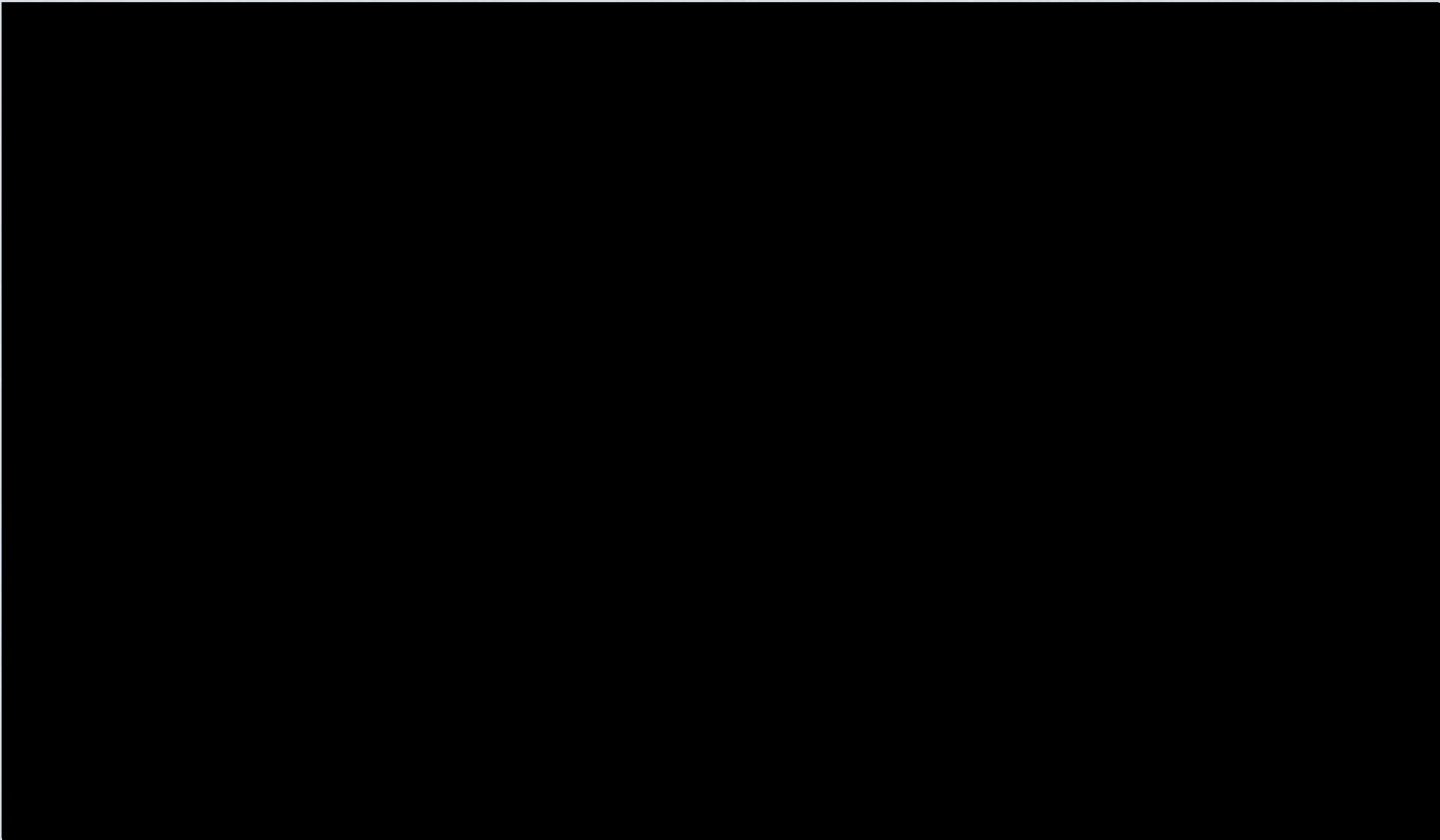
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DNGS-REFURB-232344



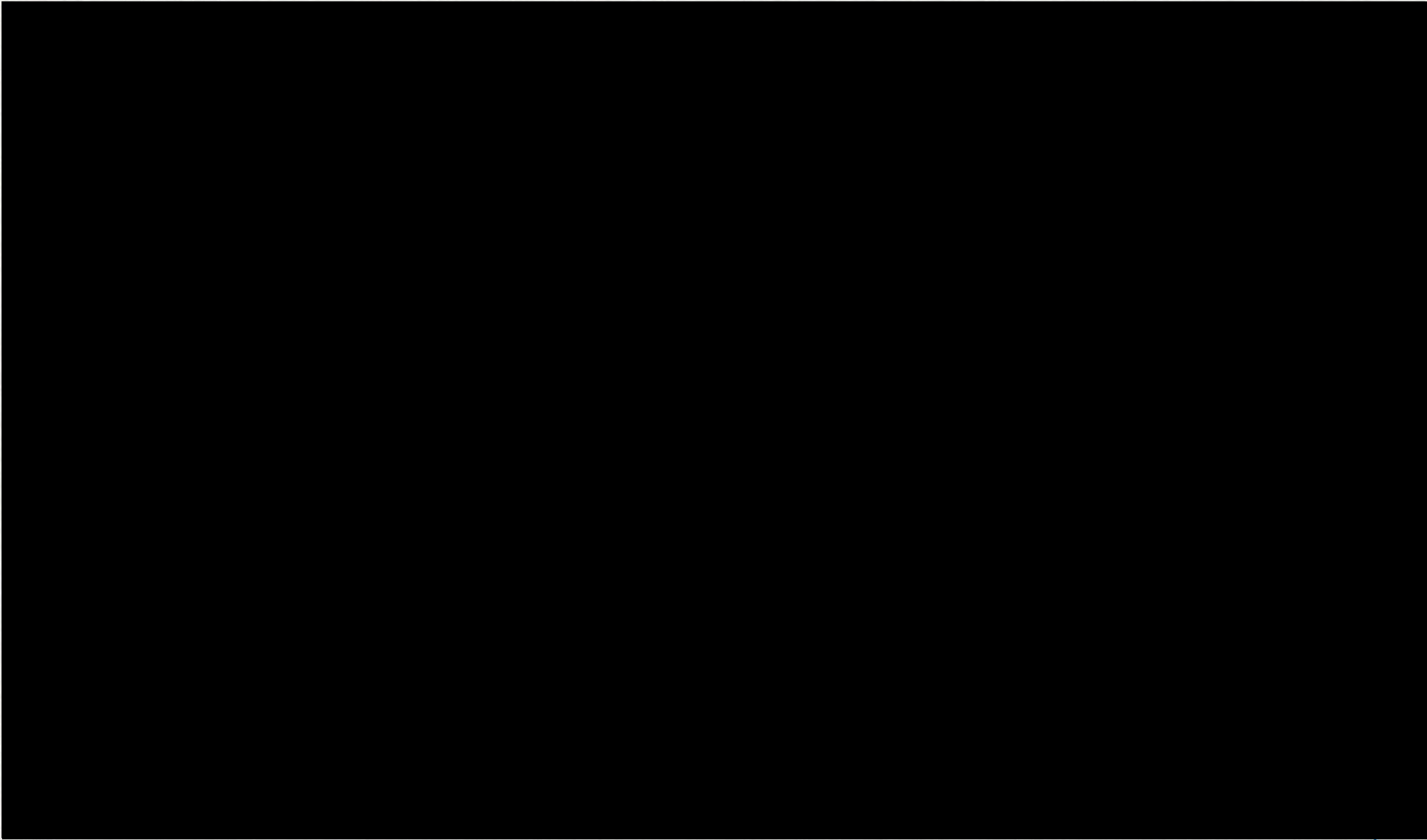
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DNGS-REFURB-232344



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DNGS-REFURB-232344

Attachment 1 to Exhibit 6.3(a)



SNC-LAVALIN
Nuclear

AECON
Joint Venture

Document Identification

509407-00-RFR-30WI-0001

Revision

0

Title: **Travel and Per Diem Policy – Darlington RFR**

Date Effective: 03-Feb-2012

Retain Until: 2024

Prepared By: Aaron Johnson
Project Manager
SLN-AECON JV

Date:

Reviewed By: Rob Frasca
Project Manager
SLN-AECON JV

Date:

Approved By: Brian Savage
Project Director
SLN-AECON JV

Date:



<u>Document Identification</u> 509407-00-RFR-30WI-0001		Revision 0
Date Effective: 2012.02.03		Page i

Title: **Travel and Per Diem Policy – Darlington RFR**

RECORD OF REVISION					
Revision Number	Date	Description	Authorizing Signatures		
			Prepared By:	Reviewed By:	Approved By:

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Document Identification 509407-00-RFR-30WI-0001		Revision 0
Date Effective: 2012.02.03		Page ii

Title: **Travel and Per Diem Policy – Darlington RFR**

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Date Effective:	2012.02.03	1

Title: **Travel and Per Diem Policy – Darlington RFR**

1 Application

This Travel and Per Diem Policy (Policy) sets out how employees assigned to work on the Ontario Power Generation Inc. Darlington Retube and Feeder Replacement (RFR) Project will be reimbursed for their expenses incurred in respect of the Project. Depending on the Project requirements, employees may be required to travel between Joint Venture Home Offices and the Project Site Offices intermittently or be assigned to the Project Site for an extended duration.

This Policy applies to all non-EPSCA paid employees, including but not limited to professional staff, management, and trade supervision.

This Policy is effective for the period of the employee's assignment as stated in the employee's Letter of Understanding (LOU). Adherence to this Policy is mandatory and any deviation may result in non-payment or reimbursement of the expenses incurred.

2 Definitions

2.1 Assignment

Assignment means a posting to an assignment location for the Project, for the purpose of taking a direct part in assigned work for a defined period.

2.2 Assignment Location

The normal place of work to which an employee reports while on assignment. The Assignment Location may be a Joint Venture Home Office or the Project Site Office.

2.3 Employer

Employer refers to the specific Joint Venture Party, SNC-Lavalin Nuclear Inc. (SLN) or Aecon Construction Group Inc (Aecon), by which an employee is directly paid.

2.4 Joint Venture Home Offices

Joint Venture Home Offices are as follows: SLN Oakville – 2275 Upper Middle Road, Oakville

- Aecon Cambridge – 150 Sheldon Drive, Cambridge
- ES Fox St. Catharines – 9127 Montrose Rd, Niagara Falls
- SLN Pickering – 1053 Brock Road, Pickering
- Aecon Pickering – 890 Brock Road, Pickering
- Candu Energy Mississauga – 2285 Speakman Drive, Mississauga



SNC-LAVALIN
Nuclear

AECON

Joint Venture

<u>Document Identification</u> 509407-00-RFR-30WI-0001		Revision 0
Date Effective: 2012.02.03		2

Title: **Travel and Per Diem Policy – Darlington RFR**

2.5 Immediate Family Member

Immediate Family member means spouse, common-law spouse, parent, sibling, or child.

2.6 Mileage Rate

Mileage Rate means an all-inclusive rate per kilometer that is used to calculate personal vehicle business travel amounts. The Mileage Rate shall be the sole payment for use of personal vehicle, and shall cover all costs to operate the vehicle, as defined by the Employer's Corporate Policy of any employee entitled to personal vehicle travel. Any such Mileage Rate shall not exceed the recommended rate of the Canadian Revenue Agency.

2.7 Project

The Project means the Ontario Power Generation Inc. Darlington RFR Project.

2.8 Site Offices

Site Offices refer to offices/trailers at the Darlington Energy Complex, the GM Oshawa building, and the Darlington Nuclear Generating Station.

2.9 Temporary Work Location

Temporary Work Location means a location to which an employee is required to travel to/from their Assignment Location.



<u>Document Identification</u>		Revision
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Date Effective:	2012.02.03	3

Title: **Travel and Per Diem Policy – Darlington RFR**

3 Per Diem Allowance

3.1 Eligibility

Where an employee is assigned to an Assignment Location other than their own Employer's home office for a period that exceeds 1 month, they may be eligible for a per diem allowance based on meeting all of the following requirements:

- The Assignment Location is greater than 90 km from employee's principal residence by the most direct route normally travelled in the circumstances
- The employee must not lease his/her principal residence to any one else while on assignment.
- The employee must not lease his/her principal residence from an Immediate Family member.
- The employee must not return to his/her permanent residence at the end of each day, and must keep a temporary residence within 50 km of the assignment location. (Proof of temporary residence is required.)
- The employee must not lease his/her temporary residence from an Immediate Family member while on assignment.
- The employee must fill out a TD4 – Declaration of Exemption "Employment at a Special Work Site" form and remit to their Employer.
- The employee's eligibility for a per diem allowance will be at the approval and reasonable discretion of the Project Director. For greater certainty, where possible, employees who live near the Site Offices will be hired specifically for the Project.

3.2 Per Diem Allowance

At the approval of the Project Director based on the above criteria, staff eligible for a per diem allowance will receive a per diem rate of \$600 per week (inclusive of weekends and statutory holidays) which is an all-inclusive allowance for accommodation, breakfast, lunch, dinner, return trips to the employee's principal place of residence and for misc. expenses (laundry, phone calls, etc). This allowance will be paid on the employee's regular pay schedule. Employees on approved vacation or short term disability may be eligible for a reduced per diem allowance as described in section 3.3. Any additional business travel will be covered as described below.

3.3 Vacation and Time Away from the Project

Employees eligible for a per diem allowance shall be entitled to receive a reduced Per Diem allowance amount during a vacation (up to 4 weeks) or short term disability/leave, if



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Joint Venture

Document Identification		Revision
509407-00-RFR-30WI-0001		0
Date Effective:	2012.02.03	4

Title: **Travel and Per Diem Policy – Darlington RFR**

the employee incurs costs to keep their temporary residence. Receipts to support the incurred cost shall be submitted and approved by the Project Director. The reduced per diem rate while on vacation or short term leave shall be 70% of the employee's eligible per diem allowance.

3.4 Spouses Eligible for Per Diem Allowance

If spouse or common law couples are both on an assignment and eligible for a per diem allowance, the first cohabitant will be eligible for the full per diem allowance while the second will be eligible for a reduced per diem allowance reflective of the incremental cost of living. As a guideline, the second cohabitant shall receive 60% of the full per diem allowance. This eligibility will be at the approval and reasonable discretion of the Project Director.

3.5 Termination of Employment or Per Diem Allowance

Should the assignment be terminated for any reason other than cause the employee will be provided with one month of written notice. If the notification period is shorter than 1 month, the employee will be reimbursed for up to two weeks of per diem expenses. Should proper notification for termination not be given by the Employer to the employee, Ontario Power Generation, Inc. shall not bear the incremental cost of improper notification.

4 Wrap-Around/Turn-Around

Where an employee is receiving a per diem allowance, there shall be no further payment for return trips to and from their principal residence (commonly referred to as wraparound, wrap, turnaround, or home leave).

5 Business Travel

Where an employee is required to travel from his/her Assignment Location to a Temporary Work Location for business purposes, they may be entitled to receive travel amounts in accordance with this policy. However, if the assignment location is less than 50km from the employee's principal residence by the most direct route normally travelled than the employee does not qualify for business travel expenses. An employee may use his/her own vehicle for business purposes if this proves to be less expensive and more practical than renting a car, or using a leased pool vehicle. The final decision to use an employee's personal vehicle or a pool vehicle shall be at the discretion of the Project Director.



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5.1 Personal Vehicle Travel

This section applies only to employees using their personal vehicle for business travel. Employees driving their own vehicles on company business are not insured for collision or third party liability under the SLN or Aecon insurance policies. In the event of an accident the employee's personal auto insurance policy provides sole coverage for both collision and liability, and the employee must pay the deductibles required by his/her personal auto insurance policy.

SLN and/or Aecon accepts no liability for any loss, damage, nor injury that may result from utilization of a personal vehicle for business purposes.

Personal vehicle mileage will be reimbursed through a mileage rate which is applied to the number of kilometers recorded for business travel. The mileage rate is to cover all costs related to operation of the vehicle.

5.1.1 Eligibility

Where travel to/from the Temporary Location is categorized by the pre-defined section below, the mileage reimbursement will be calculated using the distance from the employee's principal residence or the distances shown in 5.1.2, whichever is lower. Where the Temporary Location is not categorized by 5.1.2, the mileage will be calculated using the closer of the employee's principal residence and their assignment location. All calculations shall use the mileage reimbursement rate in effect at the time of travel.

5.1.2 Lump Sum Travel (Pre-defined)

- SLN Oakville to Site Office – 103km x Mileage Rate (each way)
- Aecon Cambridge to Site Office – 150km x Mileage Rate (each way)
- ES Fox St. Catharine's to Site Office – 198km x Mileage Rate (each way)
- Aecon Cambridge to SLN Oakville – 65km x Mileage Rate (each way)
- ES Fox St. Catharine's to SLN Oakville - 101km x Mileage Rate (each way)
- Candu Energy Mississauga to Site Office - 98km x Mileage Rate (each way)
- Aecon or SLN Pickering to SLN Oakville – 80km x Mileage Rate (each way)

5.2 Air Travel

All air travel arrangements must be made through the Employer's travel agent and will be economy fare based except for where a non-stop flight is greater than five hours and pre-approved by the Project Director. In no event shall the fare exceed Business Class.

5.3 Expenses While Travelling

If an employee incurs expenses while travelling, they are to be reimbursed in accordance with their Employer's expense policy. All expenses for personal or business meals must



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be reasonable and justified by receipts in the proper (detailed) form. As a guideline, \$10 for breakfast, \$15 for lunch, and \$35 for dinner is reasonable.

Alcohol shall not be a permissible expense. Hotel reservations must be at the lowest rate available for reasonable accommodation at the destination. All expenses must be approved by the Project Director.

Examples of acceptable expenses:

- Meals during business hours
- Meals outside of business hours if overnight stay required
- Hotel accommodation costs (if multiple days required at Temporary Location)
- Toll road fees (if required during rush hour periods)

5.4 Cap on Expenses

In the event the employee meets the criteria for the Per Diem Allowance per 3.1, but elects to receive Business Expenses in lieu of the Per Diem Allowance, no employee shall be entitled to claim for total monthly Business Expenses an amount greater than the equivalent per diem rate less 10%. The intent of this provision is to encourage employees on assignments exceeding 30 days, to not spend excessive durations travelling to/from their assignment.

6 Relocation Allowance

Should the employee decide to permanently relocate to the assignment location he/she will be eligible for relocation assistance as approved by the Project Director and OPG jointly. The basis for relocation assistance shall be in accordance with Aecon Policy 7.3.4.

7 Company Vehicles

SLN or Aecon staff or supervision who utilize a (unmarked) company vehicle are not eligible for any personal vehicle travel amounts.

8 Taxation

All remuneration paid to the employee is subject to the prevailing income tax laws and regulations. The employee is solely responsible for complying with all income tax regulations and for establishing his personal status with regard to residence and taxation with the taxation authorities prior to departure for the assignment location and for final tax status following return.

It remains the responsibility of the employee to provide satisfactory documentation to the Human Resources Department to allow the Employer to adequately assess the taxability of any of the above-mentioned benefits.

AECON GROUP INC.	CORPORATE POLICIES	DATE: April 2006	POLICY NUMBER 7.3.4
		SUPERSEDES: 7.3.5 Jan. 2003	Page 1 of 5
SUBJECT: Relocation			
DISTRIBUTION: All locations		ISSUED AND APPROVED BY: Vice President Human Resources	

POLICY

1 General Policy

- Aecon is committed to their employees. In doing so, Aecon wants to ensure that during relocation the move can be made as comfortable as possible. This policy addresses individual employee relocation needs.
- Relocation will be at the discretion of the employee and an employee's performance or career opportunity will not be negatively impacted as a result of choosing not to take a position that requires them to relocate.

2 Eligibility

- This policy applies to Aecon's permanent full-time employees and does not apply to employees working under specific employment contracts or employees with specified termination dates, e.g. employees on field or project assignments, or employees on expatriate projects.
- Employees under collective agreements are treated according to the provisions of the applicable collective agreement.

3 Policy Implementation

There are numerous circumstances that might arise with respect to relocations and this policy is not intended to address each and every situation. Rather it provides guidelines, which allow for some latitude and discretion for the local senior management in partnership with human resources and the relocating employee to agree on the appropriate relocation provision that will be applied depending upon the type and circumstances of the relocation.

When questions or disputes arise with respect to either the intent of the policy or guidelines, the Division President, in consultation with Human Resources will make a final decision.

Guidelines:

- Both the receiving and originating departments (where applicable) must agree that there is a business need and justification for the relocation and that the best interests of the employee have been considered
- Human Resources must be advised of a relocation situation in advance of it being finalized and any relocation provision being communicated to the impacted employee.
- When Aecon accommodates an employee who initiated a transfer request to another region, any payment for moving and relocation expenses will be at the discretion of the business group bearing the cost and subject to final approval of that Division President.

Relocation Provisions

Relocation assistance will be comprised of two areas, with specific allocations agreed as outlined in the policy guidelines provided:

Relocation Allowance

Employees may be eligible for reimbursement for the following costs incurred, per the limits indicated and subject to the approval of the Division President and HR Manager. Reimbursement of these costs will be

AECON GROUP INC.	CORPORATE POLICIES	DATE: April 2006	POLICY NUMBER 7.3.4
		SUPERSEDES: 7.3.5 Jan. 2003	Page 2 of 5
SUBJECT: Relocation			

based on a lump sum payment calculated on the Aecon relocation worksheet (worksheet provided with this policy and available through Human Resources). This lump sum will be processed through accounts payable or payroll, net deductions, per applicable provincial legislation based on what items are taxable and what are not. Employees should submit their allowance receipts to their governing tax body in order to claim for eligible reimbursement of expenses.

Maximum covered costs include:

- Legal and house sale fees (e.g. real estate commission on sale of former house and legal fees associated with sale of former house and purchase of new house). Reimbursement limit is 10% of the value of the house or \$50,000, whichever is less.
- Property purchase taxes; mortgage penalty or break lease costs. This excludes GST on the purchase of a new home.
- Assistance will be granted for personal and household effects. Eligible expenses include packing, moving, storage costs (maximum 30 days), unpacking and insuring at replacement value, shipping of two automobiles, temporary accommodation and food allowance (if required for up to 30 days).
- Cargo Protection: The company will pay the mover's premium for Full Replacement Protection for your personal/household effects and automobiles based on a declared value not to exceed \$150,000 without special approval. Any coverage above this amount will be at the expense of the employee. The employee is responsible for the cost of appraisals for any high value items.
- Travel costs for two people to the new location (additional people must be approved) will be reimbursed to a maximum of economy air fare by the most direct route, for each member of the family, when supported by fare receipts. When private motor vehicle is used in lieu of public conveyances, a vehicle allowance per kilometre by the most direct route will be reimbursed up to the maximum airfare that would have been paid.
- Expenses related to immigration, work permits, border related fees etc.
- Personal tax advice if relocating to a different country
- Registering vehicles (maximum two)
- Replacing curtains
- Cable and appliance disconnection and reconnection costs (this does not include the price of a new appliance).
- Dogs and cats may be transported as extra baggage on the airline with the employee. The company will reimburse for the rental of up to a maximum of 2 pet carriers. The employee is responsible for any boarding, veterinary or other fees associated with the animals.
- Swing sets and playground equipment will be moved provided the dismantling and reassembly are done by the employee.
- Incidental travel costs not normally covered under moving household effects (e.g. travel expenses for a familiarization trip, travel and accommodation expenses to the new location for the employee's family). See relocation reimbursement worksheet for limits
- The Human Resources Department will support employees in co-ordinating move arrangements where applicable.
- This relocation assistance will be provided to only one employee per family per move.

AECON GROUP INC.	CORPORATE POLICIES	DATE: April 2006	POLICY NUMBER 7.3.4
		SUPERSEDES: 7.3.5 Jan. 2003	Page 3 of 5
SUBJECT: Relocation			

The employee must receive three quotes for shipment of their possessions and must accept the one that is most reasonable and customary.

Loss of Equity Assistance

In exceptional circumstances, loss of equity assistance may be approved in instances where an employee is relocated from a significantly lower cost housing location to a significantly higher cost housing location. This assistance requires the approval of the Divisional President and the Vice President Human Resources.

List of Restricted Items

The following are considered restricted items and are not normally shipped or stored at Company expense:

- barbeques made from brick, cement or stone
- patio stones
- building materials (lumber, cement blocks, etc.)
- portable buildings such as tool sheds
- boats, trailers and snowmobiles
- motors
- aircraft, parts of aircraft
- perishable goods
- fuel, both liquid and solid
- explosives, corrosives, flammable liquids, cooking oil
- livestock, farm animals, fish or birds
- liquor or wines
- firearms, ammunition
- goods requiring climatically controlled conditions
- coin or other collections
- plants
- art work
- large musical instruments (e.g. piano)

When reviewing eligibility the accountable Manager and Human Resources Manager will decide eligibility of these items for reimbursement.

Termination of Employment

If an employee terminates their employment with Aecon by resigning, they will be required to refund Aecon a portion of the relocation expenses on the following basis:

- Termination within 6 months of relocation 100% of the relocation costs must be reimbursed
- Termination within 6-12 months of relocation 50% of the relocation costs must be reimbursed.

Aecon reserves the right to set-off any required repayments against any amounts that Aecon may owe the employee at the time of the resignation.

4 Role of Management

- Contact Human Resources whenever a relocation situation arises.
- Ensure appropriate approvals, as outlined in this policy, are obtained before communicating the relocation provisions to an employee.

AECON GROUP INC.	CORPORATE POLICIES	DATE: April 2006	POLICY NUMBER 7.3.4
		SUPERSEDES: 7.3.5 Jan. 2003	Page 4 of 5
SUBJECT: Relocation			

5. Role of Human Resources

- Train, coach and support managers and employees in implementing the relocation policy.
- The Human Resources Department will support employees in co-ordinating move arrangements where applicable.

6. Role of Employee

- All non-taxable moving costs (as outlined by CRA) will be reimbursed by the Finance Department. Any miscellaneous moving cost receipts that do not qualify as non-taxable must be recorded as a taxable benefit by the payroll department.

AECON GROUP INC.	CORPORATE POLICIES	DATE: April 2006	POLICY NUMBER
		SUPERSEDES: 7.3.5 Jan. 2003	7.3.4 Page 5 of 5
SUBJECT: Relocation			

Worksheet for Relocation Estimates

Prepared by:		Date:	
Employee:			
Family Members:			
Conditions/Dates:			
From:	To:	WORK ORDER #	
Real Estate/Legal: 10% of the value of the house	Estimated	Lump Sum	
Real Estate Fees:			
Legal Fees:			
Personal Tax Advice			
Current Year:			
Move of Personal Effects (list of restricted items attached)			
Shipping: (within reasonable limits)			
Storage:			
Move-in Allowance:			
House Hunting			
Duration: (one trip, 4 days max.)			
Airfare:			
Accommodation/Meals:			
Arrival Expenses (following family move)			
Duration:			
Temporary Accommodations:			
a) Hotel			
b) Relative/Friends (@ \$100/week)			
Per diem: \$40/day			
Car Rental			
Duration:			
Transitional Allowance (prior to Relocation)			
Duration:			
Temporary Accommodations:			
a) Hotel			
b) Relative/Friends (@ \$100/week)			
Per diem: \$40/day			
Other Items:			
GRAND TOTAL:			

ONTARIO POWER
GENERATION

Records File Information:
Retain In Contract File
(T06), SUP-0002

RFP #1473

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OPG-FORM-0214-R003*

Material Request

Name: Peter Moore		Employee No.: 190521	
Department: Refurbishment Execution		Issue Facility: Nuclear Refurbishment	
Need Date: 2016-05-18	Job Type:	Priority:	Project No.: 73272, 73512, 73277, 73273, 73528, 73271, 73527, 73274, 73529, 73291, 73292, 73293, 73294
MR No.: 06464953/6474241		WO Reference: n/a	
WO Description: Turbine Generator EPC Purchase Order			

Section A - Items			
Qty:	Catalog ID:	Ownership:	Acct:
Description:			
Qty:	Catalog ID:	Ownership:	Acct:
Description:			
Qty:	Catalog ID:	Ownership:	Acct:
Description:			
Qty:	Catalog ID:	Ownership:	Acct:
Description:			
Delivery of Items			
Delivery to Facility: n/a		Deliver to:	
Delivery / Shipping Instructions:			

*Associated with OPG-PROC-0060, Requisitioning Items And Services

OPG-TMP-0004-R004 (Microsoft® 2007)

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Construction Services / Statement of Work

Include completed N-FORM-11160: BTU Contract Statement of Work. If the scope of work document is security protected, please include only the identification reference and date when the scope of work document was approved.

NK38-SOW-41000-10003 Darlington Steam Turbine and Auxiliaries Refurbishment

NK38-SOW-42000-10003 Darlington Generator and Auxiliaries Refurbishment

NK38-SOW-64100-10004 Darlington Turbine Control Upgrade

NK38-SOW-64220-10003 Darlington Generator Excitation Upgrade

NK38-SOW-41800-10003 Darlington Moisture Separators Reheaters Refurbishment

NK38-SOW-09701-10041 Turbine Generator and Auxiliaries Systems Layup - Technical Scope of Work

NK38-SOW-44000-10001 Scope Of Work Darlington Condenser Struts Maintenance-Inspection

Need Date: 2016-05-18

(YYYY-MM-DD)

End Date: 2025-12-31

(YYYY-MM-DD)

Section B2: Recommended Sourcing Strategy

Select recommended Sourcing Strategy:

☐ Utilize Existing Master Service Agreement

☒ Utilize Competitive Bid Process
(Identify competitive Bid information below)

☐ Utilize Single Source Strategy (if so attach OPG-FORM-0003: Single/Sole Source Justification)

Identify the MSA (if known):

Note: Refer to OPG-PROC-0058 for details on sourcing strategy and any restrictions.

Competitive Bid Information

Identify or reference/attached other documents for the following information:

- Proposed Evaluation/Selection Criteria
- Proposed Vendors

This is a PO revision to existing contract.

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Section B3: Quality Assurance Program			
Select whose QA Program is to be used:			
<input type="checkbox"/> OPGN QA Program (I.e. Contractor working to OPG procedures only)	<input checked="" type="checkbox"/> Supplier's QA Program (select QA Program from box below)	<input type="checkbox"/> QA Program Not Required	
Select the Appropriate Quality Assurance Program(s):			
<input type="checkbox"/> ISO/IEC - 17025 (Calibration or Testing Services)	<input type="checkbox"/> Calibration Services per N-INS-01516-10008	<input type="checkbox"/> Testing Services per N-PROC-MM-0010	<input checked="" type="checkbox"/> Software Quality Assurance per N-PROC-MP-0049, N-FORM-10408 (Specify details in 'Other' field below and attach form to MR)
<input type="checkbox"/> Z299.1 <input type="checkbox"/> Z299.2 <input checked="" type="checkbox"/> Z299.3 <input type="checkbox"/> Z299.4	<input type="checkbox"/> CSA N286-05 Procurement (applicable elements) <input checked="" type="checkbox"/> CSA N286-05 Design (applicable elements) <input checked="" type="checkbox"/> CSA N286-05 Construction (applicable elements) <input checked="" type="checkbox"/> CSA N286.7 Design, Development or Use of Analytical, Scientific and Design Software Note: The selection of any of the above CSA N286 programs must be accompanied by a Z299 selection.		
Other:			
Select whose Pressure Boundary Program is to be used:			
Does the Scope of Work contain Pressure Boundary activities? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes select appropriate requirements below)		Which Certificate of Authorization (C of A) and therefore PB quality program will be used? OPG C of A <input type="checkbox"/> or Contractor's C of A <input checked="" type="checkbox"/>	
Select the appropriate Pressure Boundary quality requirements:			
<input type="checkbox"/> CSA N285/CSA B51 Class 6 <input type="checkbox"/> CSA N285 / ASME III (NCA 4000) <input type="checkbox"/> CSA N285 / ASME III Material (NCA 3800)		<input type="checkbox"/> CSA N285 Unclassified <input checked="" type="checkbox"/> CSA B51 only - Compliant Program <input type="checkbox"/> CL1,1C <input type="checkbox"/> CL2/2C <input type="checkbox"/> CL3/3C <input type="checkbox"/> CLMC / CL4 <input type="checkbox"/> Testing Services per OPG N-INS-08173-10032	
Other			
Verification & Approval of QA and PB Requirements (Required for Nuclear Services Only when not approved in another document):			
Verification by Design Engineer: <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div>n/a - no change to original PO</div> <div></div> <div></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>Print Name</div> <div>Signature</div> <div>Date: YYYY-MM-DD</div> </div> <div style="margin-top: 20px;"> Approved by Section Manager, Design Engineering: </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div></div> <div></div> <div></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>Print Name</div> <div>Signature</div> <div>Date: YYYY-MM-DD</div> </div>			

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Material Request

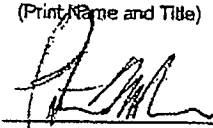
Section C: Charge Number											
Charge to (44 digit code):											
	Resp. Centre	FAC	Resource Type	Service Unit	WPS	Project Number	Activity Field	SCI	Unit	Client	Local Field
# digits	4	5	3	4	4	5	3	5	2	4	5
	2082	17553	310	2082	8204	73272	000	00000	02	7820	00000
	2082	17553	310	2082	8204	73512	000	00000	02	7820	00000
	2082	17553	310	2082	8204	73277	000	00000	02	7820	00000
	2082	02020	310	2082	8204	73292	000	00000	02	7800	00000

For Nuclear Services only - Verification that the above charge number is correct (Project CSA or Local Finance)

☒ Project, Project CSA Josie Della Pia/Pankaj Chauhan Date Verified: 2016-05-18
☐ Base, Finance (Print Name and Signature) (YYYY-MM-DD)

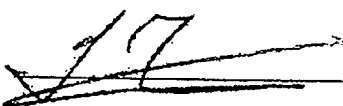
Section D: Required Approvals

Prepared by: Peter Moore, Project Manager
(Print Name and Title)

Signature: 

Date Submitted: 2016-05-19 Location: RPD Tel #: 703 9622
(YYYY-MM-DD)

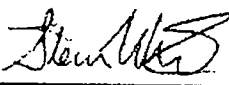
Reviewed by Contract Owner: Todd Josifovski, Project Director
(Print Name and Title)

Signature: 

Date Submitted: 2016-05-19 Location: RPD Tel #: 703-9522
(YYYY-MM-DD)

For Nuclear Service Only:

Reviewed by Local Finance: Steve Wiacek, Finance Controller
(Print Name and Title)

Signature: 

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OPG-FORM-0214-R003
Material Request

Date Submitted: 2016-05-19 Location: DEC Tel #: 703 1541
(YYYY-MM-DD)

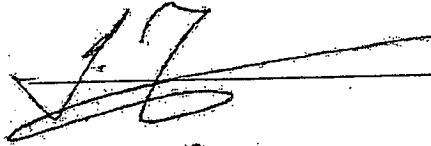
I hereby certify the scope and budget are within an approved Project BCS or Business Plan:

Approved by the
Requisitioning Line
Authority as per the
OAR:

Todd Josifovski (Project Director) / Bill Owens (VP
Refurbishment Execution)
(Print Name and Title)

OAR Authority
Level: F/D

Signature



Date Submitted: 2016-05-19 Location: RPO Tel #: 703-9522
(YYYY-MM-DD)

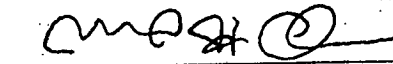
Additional OAR
Approval (if
required):

Michael Allen SVP Nuclear Refurbishment /

OAR
Authority
Level: SVP

Dietmar Reiner SVP Nuclear Projects
(Print Name and Title)

Signature




Date Submitted: 2016-05-20 Location: _____ Tel #: 289 8886716
(YYYY-MM-DD)

Additional OAR
Approval (if
required):

Glenn Jager, Nuclear President & CNO
(Print Name and Title)

OAR
Authority
Level: ELT

Signature



Date Submitted: 2016-06-02 Location: _____ Tel #: 762-5294
(YYYY-MM-DD)

Additional OAR
Approval (if
required):

Jeff Lyash, President & CEO
(Print Name and Title)

OAR
Authority
Level: CEO

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OPG-FORM-0214-R003
Material Request

Signature	_____		
Date Submitted:	_____	Location:	_____
	(YYYY-MM-DD)		Tel #: _____

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OPG-FORM-0214-R003
Material Request

Signature

Date Submitted:

2016-06-21
(YYYY-MM-DD)

Location:

Tel #:

Material Request

Name: Peter Moore		Employee No.: 190521	
Department: Refurbishment Execution		Issue Facility: Nuclear Refurbishment	
Need Date: 2016-05-18	Job Type:	Priority:	Project No.: 73272, 73512, 73277, 73273, 73528, 73271, 73527, 73274, 73529, 73291, 73292, 73293, 73294
MR No.: 06464953/6474241		WO Reference: n/a	
WO Description: Turbine Generator EPC Purchase Order			

Section A - Items			
Qty:	Catalog ID:	Ownership:	Acct:
Description:			
Qty:	Catalog ID:	Ownership:	Acct:
Description:			
Qty:	Catalog ID:	Ownership:	Acct:
Description:			
Qty:	Catalog ID:	Ownership:	Acct:
Description:			
Delivery of Items			
Delivery to Facility : n/a		Deliver to:	
Delivery / Shipping Instructions:			

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OPG-FORM-0214-R003
Material Request

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Material Request

Section B – For Services only							
Estimated Value (A):		Estimated Contingency Amount (B):		Previous Contract Value (if applicable) (C):	\$36,800k	Total Requisition Amount (A + B) + C (if applicable):	\$307,697k
Existing PO (if applicable): 232344							
Has the PSA or CPAA been approved? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>							
Section B1: Scope / Statement of Work							
Scope of Work / Description of Duties							
<p>Identify below or reference/attach other documents that identify statement of work and scope, service description/description of duties, key milestones, expected results, proposed vendors, deliverables, timelines and schedules, intellectual property rights requirements, Quantity Required, Qualification or Certification Required, work space requirements and job location, required and available tools, and labour requirement as appropriate.</p> <p>A Purchase Order was previously issued for Definition Phase of the project which included EPC planning work for preparation of maintenance and modification activities during the field execution phase (Line 0001), and optional Layout work (Line 0002), subsequently revised to include Amendment #1 changes, including incorporation of Project Change Directives 1,2,3,7,8,9 and Optional Work Notice to Proceed for Layout work.</p> <p>The current revision is to incorporate Amendment #2, to include the Unit 2 and multi-Unit (U3,1,4) Execution target price, and clarification on the Turbine Hall Cranes scope of work.</p> <p>The Interface between OPG and EPC vendor will be in accordance with N-COI-00120-00001 and mutually agreed list of deviations.</p> <p>PO Revision 2:</p> <p>Line 1: Turbine Generator Project EPC Definition Phase [REDACTED] =30.8M (total)</p> <p>Line 2: Turbine Generator Layout Project EPC Definition Phase [REDACTED] =3.9M (total)</p> <p>Revision 3 (Amendment #1):</p> <p>Line 1: Turbine Generator Project EPC Definition Phase [REDACTED] =34.0M (total)</p> <p>Line 2: Turbine Generator Layout Project EPC Definition Phase [REDACTED] =2.8M (total)</p> <p>Revision 4 (Amendment #2: this revision):</p> <p>Line 3: TG Project EPC U2 Execution Phase (73277) [REDACTED] = \$37.06M</p> <p>Line 4: TG Layout U2 Execution Phase (73512) [REDACTED] = \$0.78M</p> <p>Line 5: TG Project EPC U3 Execution Planning & Execution Phases (73273) [REDACTED] = \$71.16M</p> <p>Line 6: TG Layout U3 Execution Phase (73528) [REDACTED] = \$0.95M</p> <p>Line 7: TG Project EPC U1 Execution Planning & Execution Phases (73271) [REDACTED] = \$69.49M</p> <p>Line 8: TG Layout U1 Execution Phase (73527) [REDACTED] = \$0.94M</p> <p>Line 9: TG Project EPC U4 Execution Planning & Execution Phases (73274) [REDACTED] = \$74.97M</p> <p>Line 10: TG Layout U4 Execution Phase (73529) [REDACTED] = \$1.01M</p> <p>NR Subtotal: [REDACTED] = \$256.37M</p> <p>In addition to Amendment #2, this MR includes an estimate for additional maintenance support (Outage OM&A) for the NR executed Outage work. This scope is not part of the Refurb (\$12.8B), but will be executed by the JV. An estimate of \$10M was included in NR's 2016-2021 Business Plan submission, and the lifecycle estimate of \$13.3M was included in NR's Long term Plan. The funding request will be included in the Annual Business Plan submissions.</p> <p>Line 11: TG Cyclic Work U2/3/1/4 - Additional Outage Support as Non Refurb (73292, 73293, 73291, 73294) [REDACTED] = \$14.53M</p> <p>TOTAL = \$307,697k (including contingency *)</p> <p>[REDACTED]</p>							

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Construction Services / Statement of Work

Include completed N-FORM-11160: BTU Contract Statement of Work. If the scope of work document is security protected, please include only the identification reference and date when the scope of work document was approved.

NK38-SOW-41000-10003 Darlington Steam Turbine and Auxiliaries Refurbishment

NK38-SOW-42000-10003 Darlington Generator and Auxiliaries Refurbishment

NK38-SOW-64100-10004 Darlington Turbine Control Upgrade

NK38-SOW-64220-10003 Darlington Generator Excitation Upgrade

NK38-SOW-41800-10003 Darlington Moisture Separators Reheaters Refurbishment

NK38-SOW-09701-10041 Turbine Generator and Auxiliaries Systems Layup - Technical Scope of Work

NK38-SOW-44000-10001 Scope Of Work Darlington Condenser Struts Maintenance-Inspection

Need Date: 2016-05-18
 (YYYY-MM-DD)

End Date: 2025-12-31
 (YYYY-MM-DD)

Section B2: Recommended Sourcing Strategy

Select recommended Sourcing Strategy:

☐ Utilize Existing Master Service Agreement

☒ Utilize Competitive Bid Process
 (identify competitive Bid information below)

☐ Utilize Single Source Strategy (if so attach OPG-FORM-0003: Single/Sole Source Justification)

Identify the MSA (if known):

Note: Refer to OPG-PROC-0058 for details on sourcing strategy and any restrictions.

Competitive Bid Information

Identify or reference/attached other documents for the following information:

- Proposed Evaluation/Selection Criteria
- Proposed Vendors

This is a PO revision to existing contract.

Section B3: Quality Assurance Program			
Select whose QA Program is to be used:			
<input type="checkbox"/> OPGN QA Program (i.e. Contractor working to OPG procedures only)	<input checked="" type="checkbox"/> Supplier's QA Program (select QA Program from box below)	<input type="checkbox"/> QA Program Not Required	
Select the Appropriate Quality Assurance Program(s):			
<input type="checkbox"/> ISO/IEC – 17025 (Calibration or Testing Services)	<input type="checkbox"/> Calibration Services per N-INS-01516-10008	<input type="checkbox"/> Testing Services per N-PROC-MM-0010	<input checked="" type="checkbox"/> Software Quality Assurance per N-PROC-MP-0049 , N-FORM-10408 (Specify details in 'Other' field below and attach form to MR)
<input type="checkbox"/> Z299.1 <input type="checkbox"/> Z299.2 <input checked="" type="checkbox"/> Z299.3 <input type="checkbox"/> Z299.4	<input type="checkbox"/> CSA N286-05 Procurement (applicable elements) <input checked="" type="checkbox"/> CSA N286-05 Design (applicable elements) <input checked="" type="checkbox"/> CSA N286-05 Construction (applicable elements) <input checked="" type="checkbox"/> CSA N286.7 Design, Development or Use of Analytical, Scientific and Design Software Note: The selection of any of the above CSA N286 programs must be accompanied by a Z299 selection.		
Other:			
Select whose Pressure Boundary Program is to be used:			
Does the Scope of Work contain Pressure Boundary activities? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (if yes select appropriate requirements below)		Which Certificate of Authorization (C of A) and therefore PB quality program will be used? OPG C of A <input type="checkbox"/> or Contractor's C of A <input checked="" type="checkbox"/>	
Select the appropriate Pressure Boundary quality requirements:			
<input type="checkbox"/> CSA N285/CSA B51 Class 6 <input type="checkbox"/> CSA N285 / ASME III (NCA 4000) <input type="checkbox"/> CSA N285 / ASME III Material (NCA 3800)		<input type="checkbox"/> CSA N285 Unclassified <input checked="" type="checkbox"/> CSA B51 only - Compliant Program <input type="checkbox"/> CL1,1C <input type="checkbox"/> CL2/2C <input type="checkbox"/> CL3/3C <input type="checkbox"/> CLMC / CL4 <input type="checkbox"/> Testing Services per OPG N-INS-08173-10032	
Other			
Verification & Approval of QA and PB Requirements (Required for Nuclear Services Only when not approved in another document)			
Verification by Design Engineer:			
n/a - no change to original PO			
Print Name	Signature	Date: YYYY-MM-DD	
Approved by Section Manager, Design Engineering:			
Print Name	Signature	Date: YYYY-MM-DD	

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Material Request

Section C: Charge Number											
Charge to (44 digit code):											
	Resp Centre	FAC	Resource Type	Service Unit	WPS	Project Number	Activity Field	SCI	Unit	Client	Local Field
# digits	4	5	3	4	4	5	3	5	2	4	5
	2082	17553	310	2082	8204	73272	000	00000	02	7820	00000
	2082	17553	310	2082	8204	73512	000	00000	02	7820	00000
	2082	17553	310	2082	8204	73277	000	00000	02	7820	00000
	2082	62020	310	2082	8204	73292	000	00000	02	7800	00000
For Nuclear Services only - Verification that the above charge number is correct (Project CSA or Local Finance)											
<div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Project, Project CSA <u>Josie Della Pia/Pankaj Chauhan</u> <input type="checkbox"/> Base, Finance (Print Name and Signature) </div> <div style="text-align: center;"> <i>PC</i> </div> <div> Date <u>2016-05-18</u> Verified: (YYYY-MM-DD) </div> </div>											
Section D: Required Approvals											
Prepared by: <u>Peter Moore, Project Manager</u> (Print Name and Title)											
Signature											
Date Submitted: <u>2016-05-19</u> Location: <u>RPO</u> Tel #: <u>703 9622</u> (YYYY-MM-DD)											
Reviewed by Contract Owner: <u>Todd Josifovski, Project Director</u> (Print Name and Title)											
Signature											
Date Submitted: <u>2016-05-19</u> Location: <u>RPO</u> Tel #: <u>703-9522</u> (YYYY-MM-DD)											
For Nuclear Service Only:											
Reviewed by Local Finance: <u>Steve Wiacek, Finance Controller</u> (Print Name and Title)											
Signature											

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Material Request

Date Submitted: 2016-05-19 Location: DEC Tel #: 703 1541
 (YYYY-MM-DD)

I hereby certify the scope and budget are within an approved Project BCS or Business Plan:

Approved by the
 Requisitioning Line
 Authority as per the
 OAR:

Todd Josifovski (Project Director) / Bill Owens (VP
 Refurbishment Execution)
 (Print Name and Title)

OAR Authority
 Level: F / D

Signature



Date Submitted: 2016-05-19 Location: RPO Tel #: 703-9522
 (YYYY-MM-DD)

Additional OAR
 Approval (if
 required):

Michael Allen SVP Nuclear Refurbishment /
 Dietmar Reiner SVP Nuclear Projects
 (Print Name and Title)

OAR
 Authority
 Level: SVP

Signature

Date Submitted: _____ Location: _____ Tel #: _____
 (YYYY-MM-DD)

Additional OAR
 Approval (if
 required):

Glenn Jager, Nuclear President & CNO
 (Print Name and Title)

OAR
 Authority
 Level: ELT

Signature

Date Submitted: _____ Location: _____ Tel #: _____
 (YYYY-MM-DD)

Additional OAR
 Approval (if
 required):

Jeff Lyash, President & CEO
 (Print Name and Title)

OAR
 Authority
 Level: CEO

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OPG-FORM-0214-R003
Material Request

Signature _____

Date Submitted: _____

(YYYY-MM-DD)

Location: _____

Tel #: _____

Amendment Agreement Number 2

THIS AGREEMENT is made as of January 1, 2017.

BETWEEN:

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

and

AECON CONSTRUCTION GROUP INC., a corporation existing under the laws of Canada,
and **SNC-LAVALIN NUCLEAR 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, a Joint Venture".

RECITALS

- A. OPG and the Contractor entered into an extended services master services agreement dated as of December 19, 2014, as amended by Amendment Agreement Number 1 dated as of July 7, 2015 (collectively, the "**Original Agreement**").
- B. OPG and the Contractor have agreed to further amend the Original Agreement as set forth herein.

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 (Definitions)

Section 1.1 of the Original Agreement is hereby amended by:

- (a) deleting Section 1.1(jjj) (Performance Fee Pool) in its entirety and replacing it with the following:

"(jjj) **Performance Fee Pool** means, at any point in time, the amount representing [REDACTED] of the total amount of each Application for Payment accepted by OPG under this Agreement (except any Application for Payment in respect of Fixed Price Work, payment of the Performance Fee or the Core Team Services Fee or any amounts in respect of EPSCA travel and subsistence and training) during the relevant calendar year.";

Amendment 2 to the Extended Services Master Services Agreement with AECON Construction Group Inc. and SNC-Lavalin Nuclear Inc., made as of December 19, 2014

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- (b) deleting Section 1.1(dddd) (Reimbursable Labour Costs) in its entirety and replacing it with the following:

“(dddd) **Reimbursable Labour Costs** means, in respect of each applicable Purchase Order, all labour costs for hourly and salaried personnel which are incurred by the Contractor in good faith for direct labour employed or contracted by the Contractor in the performance of the Work, calculated in accordance with the Reimbursable Labour Costs Table.”;

- (c) deleting Section 1.1(nnnn) (Statutory Burdens) in its entirety and replacing it with the following:

“(nnnn) **Statutory Burdens** means any statutory assessments incurred by the Contractor in good faith for direct labour employed or contracted by the Contractor in the performance of any Work, such as CPP, EI, WSIB and employee health tax. For greater certainty, the applicable Statutory Burdens are included in the Reimbursable Labour Costs for non-trades personnel and in the Statutory Burdens Multiplier for the Reimbursable Labour Costs for trades personnel.”; and

- (d) adding Section 1.1(nnnn.1) (Statutory Burdens Multiplier) which will read as follows:

“(nnnn.1) **Statutory Burdens Multiplier** means, in respect of Reimbursable Labour Costs for trades, a fixed percentage calculated in accordance with Part 2 of Schedule 4 which is used to calculate the total Reimbursable Labour Costs for trades personnel.”.

3. Change to Section 5.2 (Performance Fee)

Section 5.2 of the Original Agreement is hereby amended by deleting Section 5.2(a) (Addition to Performance Fee Pool) in its entirety and replacing it with the following:

“(a) **Addition to Performance Fee Pool.** In respect of each Application for Payment accepted by OPG under this Agreement (except any Application for Payment in respect of Fixed Price Work, payment of the Performance Fee or the Core Team Services Fee or any amounts in respect of EPSCA travel and subsistence and training), ■ of the total amount of the Application for Payment shall be withheld and added to the Performance Fee Pool.”.

4. Change to Section 8.1 (Pricing)

Section 8.1 of the Original Agreement is hereby amended by:

- (a) Deleting Section 8.1(k) (Rate Escalation for Trades) in its entirety and replacing it with the following:

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- “(k) **Rate Escalation for Trades.** The Total Base Wage Packages (which, for greater certainty, exclude the applicable Statutory Burdens included in the Statutory Burdens Multiplier) for trades personnel determined under the applicable collective agreements will be escalated in accordance with such collective agreements. For purposes of this Section 8.1(k), “Total Base Wage Packages” mean the sum of amounts of wages, vacation pay, holiday pay, benefits, pension and other similar compensation items required to be paid by employers under the applicable collective agreements.”;
- (b) deleting Section 8.1(l) (Rate Escalation for Non-Trades) in its entirety and replacing it with the following:
- “(l) **Rate Escalation for Non-Trades.** Subject to Section 8.1(m):
- (i) the base salaries of the non-trades personnel who are Core Team members and whose positions are specified in Schedule 2, which base salaries are set out in rate sheets attached to the Purchase Order for the Core Team (as such base salaries may be updated from time to time with the prior written approval of OPG’s MSA Representative and the concurrence by the Steering Committee, as evidenced by a Notice to the Contractor signed by OPG’s MSA Representative); and
 - (ii) the rates (which, for greater certainty, include Statutory Burdens) set out in the Reimbursable Labour Costs Table that relate to non-trades personnel,
- will be escalated, beginning on April 1, 2016, at the rate per annum approved by the Steering Committee based on the average change in the following indices over the relevant period:
- (1) Consumer Price Index published by Statistics Canada;
 - (2) Consumer Price Index for Ontario published by Statistics Canada;
 - (3) CPI-XFET (CPI excluding food, energy and the effect of changes in indirect taxes) published by The Bank of Canada;
 - (4) Ontario Ministry of Labour - Collective Bargaining Highlights - Average Annual Wage Increase for Construction;
 - (5) EPSCA - Collective Agreements - Average Annual Wage Increase;
 - (6) PWU - Collective Agreements - Average Annual Wage Increase; and
 - (7) OPG Society Collective Agreement - Annual Wage Increase,
- or such other indices as the Steering Committee may recommend.”;

- (c) deleting Section 8.1(m) (Rate Escalation for Certain Non-Trades Personnel) in its entirety and replacing it with the following:

“(m) **Rate Escalation for Certain Non-Trades Personnel.** The rates (which, for greater certainty, include Statutory Burdens) set out in the Reimbursable Labour Costs Table that relate to non-trades personnel holding the position of general foreman will be escalated at the rate applicable to the trade supervised by such general foreman, as determined in accordance with the collective agreement applicable to the trade supervised by such general foreman.”;

- (d) deleting Section 8.1(q) (Adjustments to Reimbursable Labour Costs Table for Non-Trades Personnel) in its entirety and replacing it with the following:

“(q) **Adjustments to Reimbursable Labour Costs Table for Non-Trades Personnel.** Except for rate escalation set out in Sections 8.1(l) and 8.1(m), the Reimbursable Labour Costs for non-trades personnel (which, for greater certainty, include Statutory Burdens) set out in the Reimbursable Labour Costs Table relating to non-trades personnel will not be subject to any adjustments, unless such adjustments are: (i) required in exceptional circumstances; (ii) approved by OPG in writing prior to their use; and (iii) evidenced in an applicable Worksheet.”; and

- (e) adding Section 8.1(r) (Adjustments to Statutory Burdens Multiplier) which will read as follows:

“(r) **Adjustments to Statutory Burdens Multiplier.** The Statutory Burdens Multiplier will not be subject to any adjustments, unless such adjustments are: (i) required to place the Contractor in no better and no worse a position following a net increase or net decrease in costs due to changes to Statutory Burdens imposed by the applicable Governmental Authorities; (ii) approved by OPG in writing prior to its use; (iii) calculated in accordance with Part 2 of Schedule 4; and (iv) evidenced in a Notice to the Contractor signed by OPG’s MSA Representative. For greater certainty, the Statutory Burdens Multiplier will not be subject to any escalation.”.

5. Change to Section 8.3 (Applications for Payment)

Section 8.3 of the Original Agreement is hereby amended by deleting the first two sentences in Section 8.3(a) (Application for Payment) in their entirety and replacing with the following:

“In connection with each Purchase Order, the Contractor will submit to OPG on a timely basis, and in any event by the end of each month or as otherwise specified in the Purchase Order, an Application for Payment which includes an accurate summary of all of its costs for the Work incurred pursuant to that Purchase Order in the previous month or other period, as applicable. OPG will promptly review (and, at its option, audit) each Application for Payment, including, without limitation, the submitted costs against the

Reimbursable Labour Costs Table and the Reimbursable Non-Labour Costs Table, as applicable, to ensure that such Application for Payment complies with the requirements of this Agreement.”

6. Change to Section 8.4 (Payment Terms)

Section 8.4 of the Original Agreement is hereby amended by deleting the last three sentences in Section 8.4(a) (Payment Terms) in their entirety and replacing with the following:

“If OPG considers that any of the submitted costs are not Reimbursable Costs, OPG and the Contractor will work cooperatively to resolve the issue. If OPG and the Contractor cannot reach agreement with regard to any submitted cost, such dispute will be resolved in accordance with Section 11. If OPG and the Contractor agree that a submitted cost is a Reimbursable Cost, or if such submitted cost is determined to be a Reimbursable Cost pursuant to the dispute resolution mechanisms set out in Section 11, such submitted cost will be deemed to be a Reimbursable Cost and may be included in the next Application for Payment submitted to OPG.”

7. Change to Section 8.13 (Records and Audits)

Section 8.13 of the Original Agreement is hereby amended by:

(a) deleting Section 8.13(b)(1) in its entirety and replacing it with the following:

“(1) The Contractor will ensure that, for all Work performed under this Agreement, the Contractor, the Subcontractors and Augmented Staff retain all such records and documents as may be requested by OPG on an ongoing basis, which will include, without limitation, proper timesheets, equipment-related records, accounts, invoices and bank records which are necessary for OPG to verify the nature and quality of any such Work and the accuracy of invoices for submitted costs incurred by the Contractor hereunder for any such Work (whether by the Contractor’s Personnel or Augmented Staff). Timesheets will identify the provider of the Work, the Work performed, the location of the Work, the relevant period of time during which the Work was performed and the hours incurred.”

(b) deleting Section 8.13(b)(2) in its entirety and replacing it with the following:

“(2) The Contractor’s costs will be subject to audit by OPG on an ongoing basis during the term of this Agreement. The Contractor’s costs will only be reimbursed if they are capable of being fully audited from source documents, as applicable, and if OPG is satisfied, on the basis of documentation provided to OPG by the Contractor, that such costs are Reimbursable Costs or, in respect of Goods, are the Contractor’s actual cost (excluding any Canadian goods and services tax/harmonized sales tax levied under the *Excise Tax Act* (Canada)). For greater certainty, the Contractor’s labour costs will only be

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reimbursed if they were calculated in accordance with the Reimbursable Labour Costs Tables.”

8. Change to Schedule 4 (Reimbursable Labour Costs Tables)

Schedule 4 of the Original Agreement is hereby deleted in its entirety and replaced with the revised document entitled “Schedule 4 – Reimbursable Labour Costs Tables” attached to this Agreement as Attachment A.

9. Original Agreement Remains in Full Force

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

The Parties have duly executed this Agreement as of the date first above written.

ONTARIO POWER GENERATION INC.

By:

Name:

Title:

Stephen E. Oliver
Chief Supply Officer
Stephen E. Oliver

AECON CONSTRUCTION GROUP INC.

By:

Name:

Title:

Ian Turnbull
Ian Turnbull
Name: Ian Turnbull
Title: Sr. V.P., Energy East

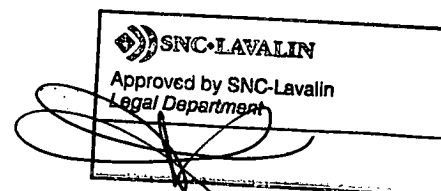
SNC-LAVALIN NUCLEAR INC.

By:

Name:

Title:

Robert Stewart
Robert Stewart
Name: Robert Stewart
Title: Sr. V.P., Operations



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ATTACHMENT A

SCHEDULE 4

REIMBURSABLE LABOUR COSTS TABLES

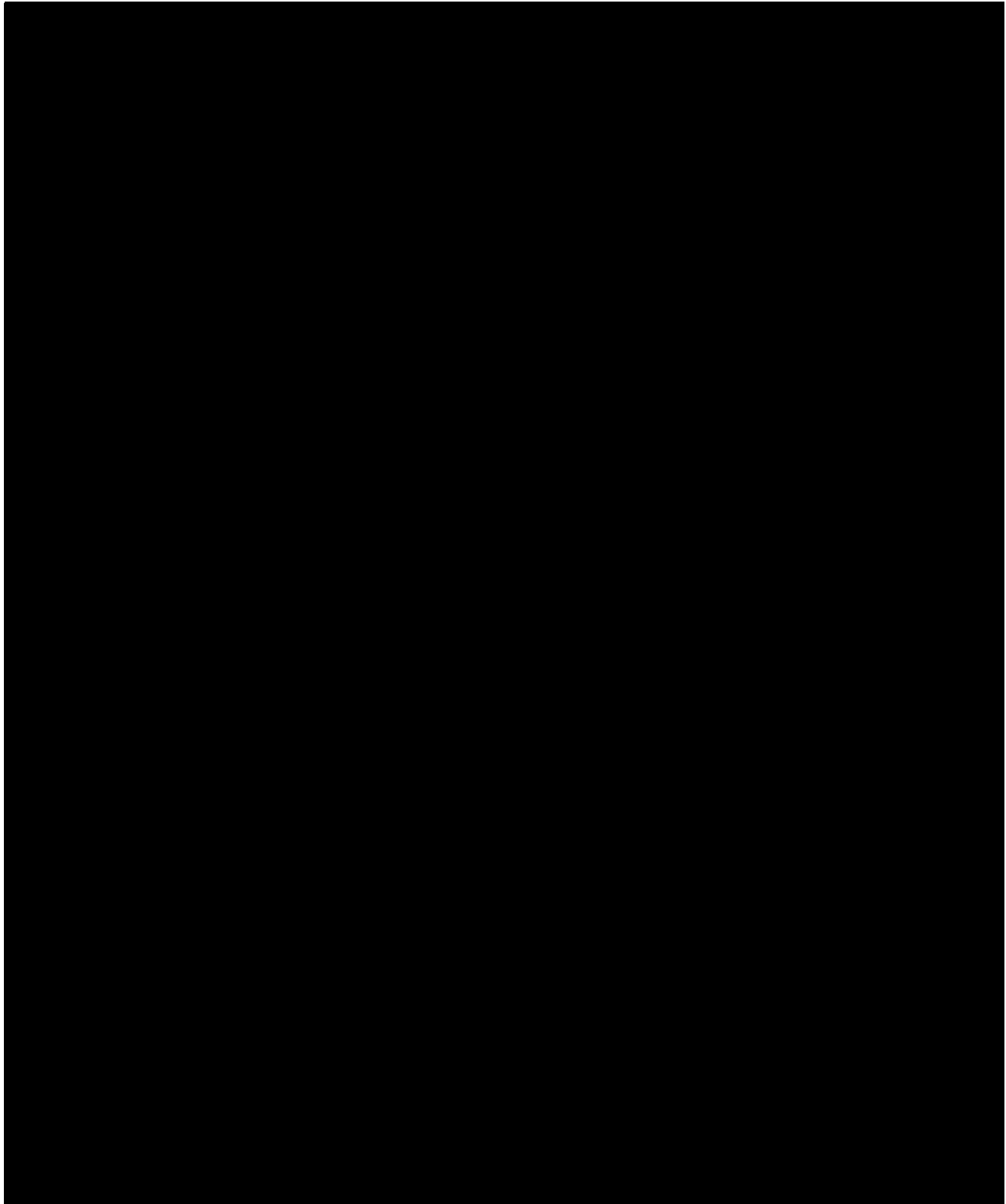
[See attached]

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EXECUTION VERSION

SCHEDULE 4

REIMBURSABLE LABOUR COSTS TABLES



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EXECUTION VERSION

PART 1 B – NON-TRADES JOB DESCRIPTIONS

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
1	Project Director	<ul style="list-style-type: none"> • Define project objectives and develop the project delivery model, including procurement and contracting strategies • Manage all aspects of project planning (including the development of the budget, schedule, procurement and contracting plans, and risk, scope and change management plans) • Lead the project organization and assign the work • Direct all project management, engineering and construction activities • Monitor project performance (cost, schedule, quality) and complete and distribute regular project reports (including issues, status, and KPIs) to key stakeholders • Maintain relationships with key internal and external stakeholders • Supervise and complete project close-out activities and coordinate the transfer to operations 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering (or related discipline) or related experience • P.Eng and Project Management Professional (PMP) designation preferred <p>Experience:</p> <ul style="list-style-type: none"> • 10 - 15 years of project management experience for nuclear power plant industry or related construction/industrial projects in an EPC environment • Relevant experience in project development and planning • Experience effectively managing projects of high risk and complexity (recommended worth over \$100M+ exceptions may apply) • Experience overseeing multiple project management teams • Strong leadership, communication, organization, and analytical skills
2	Project Manager-1	<ul style="list-style-type: none"> • Define project objectives and develop the project delivery model, including procurement and contracting strategies • Manage all aspects of project planning 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering (or related discipline) or related experience • P.Eng and Project Management Professional

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Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<p>(including the development of the budget, schedule, procurement and contracting plans, and risk, scope and change management plans)</p> <ul style="list-style-type: none"> • Lead the project organization and assign the work • Direct all project management, engineering and construction activities • Manage all day-to-day project management activities throughout the project lifecycle • Monitor project performance (cost, schedule, quality) and complete and distribute regular project reports (including issues, status, and KPIs) to key stakeholders • Maintain relationships with key internal and external stakeholders • Supervise and complete project close-out activities and support the transition to operation 	<p>(PMP) designation preferred</p> <p>Experience:</p> <ul style="list-style-type: none"> • 8 - 9 years of project management experience for nuclear power plant industry or related construction/industrial projects , preferable in an EPC environment • Relevant experience in project development and planning • Experience effectively managing projects of medium risk and complexity (recommended worth between 10-100M, exceptions may apply) • Experience overseeing project teams • Strong leadership, communication, organization, and analytical skills
3	Project Manager-2	<ul style="list-style-type: none"> • Define project objectives and develop the project delivery model, including procurement and contracting strategies • Manage all aspects of project planning (including the development of the budget, schedule, procurement and contracting plans, and risk, scope and change management plans) • Lead the project organization and assign the 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering (or related discipline) or related experience • P.Eng and Project Management Professional (PMP) designation preferred <p>Experience:</p> <ul style="list-style-type: none"> • 5 - 7 years of project management experience for nuclear power plant industry or related construction/industrial projects preferable in an EPC environment

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<p>work.</p> <ul style="list-style-type: none"> • Manage all day-to-day project management activities throughout the project lifecycle • Monitor project performance (cost, schedule, quality) and complete and distribute regular project reports (including issues, status, and KPIs) to key stakeholders • Maintain relationships with key internal and external stakeholders • Supervise and complete project close-out activities and support the transition to operations 	<ul style="list-style-type: none"> • Relevant experience in project development and planning • Experience effectively managing projects of low risk and complexity • Experience overseeing project teams • Strong leadership, communication, organization, and analytical skills
4	Project Manager-3	<ul style="list-style-type: none"> • Define project objectives and develop the project delivery model, including procurement and contracting strategies. • Manage all aspects of project planning (including the development of the budget, schedule, procurement and contracting plans, and risk, scope and change management plans) • Lead the project organization and assign the work • Manage all day-to-day project management activities throughout the project lifecycle • Monitor project performance (cost, schedule, quality) and complete and distribute regular project reports (including issues, status, and KPIs) to key stakeholders 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering (or related discipline) or related experience • P.Eng and Project Management Professional (PMP) designation preferred <p>Experience:</p> <ul style="list-style-type: none"> • 2 - 4 years of project experience for nuclear power plant industry or related construction / industrial projects • Relevant experience in project development and planning • Experience on projects of low risk and complexity • Experience/participation on project teams • Strong leadership, communication, organization, and analytical skills

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Maintain relationships with key internal and external stakeholders • Supervise and complete project close-out activities and support the transition to operations 	
5	Superintendent 1	<ul style="list-style-type: none"> • Provide input to the development of the project budget, schedule and risk, scope and project execution methodology plans • Direct and organize construction trades activities • Ensure all site activities are in compliance with Health and Safety program and QA/QC program • Complete on-going project documentation and contribute to regular project reporting • Communicate project status, including any anticipated issues and cost or schedule variances to relevant project team members 	Education: <ul style="list-style-type: none"> • Relevant technical training and/or trade experience Experience: <ul style="list-style-type: none"> • 10 years construction management experience across multiple trades projects of similar complexity • Strong leadership, organization, communication and analytical skills
6	Superintendent- 2	<ul style="list-style-type: none"> • Provide input to the development of the project budget, schedule and risk, scope and project execution methodology plans • Direct and organize construction trades activities • Ensure all site activities are in compliance with Health and Safety program and QA/QC program • Complete on-going project documentation and contribute to regular project reporting 	Education: <ul style="list-style-type: none"> • Relevant technical training and/or trade experience Experience: <ul style="list-style-type: none"> • 5 years construction experience as a superintendent across mechanical or electrical trades projects of similar complexity • Strong leadership, organization, communication and analytical skills

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> Communicate project status, including any anticipated issues and cost or schedule variances to relevant project team members 	
7	Superintendent- 3	<ul style="list-style-type: none"> Provide input to the development of the project budget, schedule and risk, scope and project execution methodology plans Direct and organize construction trades activities Ensure all site activities are in compliance with Health and Safety program and QA/QC program Complete on-going project documentation and contribute to regular project reporting Communicate project status, including any anticipated issues and cost or schedule variances to relevant project team members 	Education: <ul style="list-style-type: none"> Relevant technical training and/or trade experience Experience: <ul style="list-style-type: none"> 3-5 years construction experience as a GF across various trades projects of similar complexity Strong leadership, organization, communication and analytical skills
8	Project Administration -1	<ul style="list-style-type: none"> Understand project-specific filing systems, interfaces, and general document control processes and manage the flow of information accordingly Adhere to record retention policies and standards, and comply with filing system Maintain the project's library of documents (including engineering, architectural, procurement and construction documents) Distribute, retrieve and archive documents Communicate relevant information to internal and external stakeholders when required 	Education: <ul style="list-style-type: none"> Relevant technical training or experience Experience: <ul style="list-style-type: none"> 6 years document retention / administrative experience 5 years payroll experience within a union environment Experience working on projects of high complexity Understand project management processes and document control procedures Proven knowledge of document filing systems, policies and standards

PC PS

EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Understand and comply with project retention policies and standards • Project level attendance (site accounting) and project payroll. • Project Level Human Resources • Project Specific Training/Trainer • Material Analyst • Meeting Minutes • Other Project Level Administrative requests as required • Supervise other Project Administration Staff 	<ul style="list-style-type: none"> • Experience with electronic document control • Exceptional organizational and communication skills
9	Project Administration -2	<ul style="list-style-type: none"> • Understand project-specific filing systems, interfaces, and general document control processes and manage the flow of information accordingly • Adhere to record retention policies and standards, and comply with filing system • Maintain the project's library of documents (including engineering, architectural, procurement and construction documents) • Distribute, retrieve and archive documents • Communicate relevant information to internal and external stakeholders when required • Understand and comply with project retention policies and standards • Project level attendance (site accounting) and project payroll. 	<p>Education:</p> <ul style="list-style-type: none"> • Relevant technical training or experience <p>Experience:</p> <ul style="list-style-type: none"> • 3 years document retention / administrative experience • 3 years payroll experience within a union environment • Experience working on projects of medium complexity • Understand project management processes and document control procedures • Experience with electronic document control • Exceptional organizational and communication skills

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Project Level Human Resources • Project Specific Training/Trainer • Meeting Minutes • Other Project Level Administrative requests as required 	
10	Project Administration -3	<ul style="list-style-type: none"> • Understand project-specific filing systems, interfaces, and general document control processes and manage the flow of information accordingly • Adhere to record retention policies and standards, and comply with filing system • Maintain the project's library of documents (including engineering, architectural, procurement and construction documents) • Distribute, retrieve and archive documents • Communicate relevant information to internal and external stakeholders when required • Understand and comply with project retention policies and standards • Project level attendance (site accounting) and project payroll. • Project Level Human Resources • Meeting Minutes • Other Project Level Administrative requests as required 	Education: <ul style="list-style-type: none"> • Relevant technical training or experience Experience: <ul style="list-style-type: none"> • up to 3 years document control experience • up to 3 years payroll experience within a union environment • Experience working on projects of low complexity • Understand project management processes and document control procedures • Experience with electronic document control • Exceptional organizational and communication skills

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
11	Quality Assurance/ Control -1	<ul style="list-style-type: none"> • Located on the designated Licensee Site. • Responsible to monitor all aspects of the Work to ensure line management is meeting the Quality requirements as required by the applicable standards, codes, work packages, quality program and the Licensee quality program when applicable. • Ensures compliance with FME program and / or Licensee requirements when applicable • Is the quality conscience for the company • Liaison with Pressure Boundary jurisdiction • Perform work activities in a safe manner and in compliance with applicable Safety Programs • Perform inspection activities with respect to discipline as required. • Ensuring correctness of Work Sign-off activities as related to inspection and test activities. • Aid with the implementation of the Management System and QA Programs within PGR. • Authorization of Inspection and Test Plan(s). • Coordination with Project Managers for Project QC activities, including interfaces with outside organizations (subcontractors). • Ensuring the preparation of the Manufacturer's Data Reports. 	<p>Education: Education and Experience</p> <ul style="list-style-type: none"> • Minimum of 2 years college or university in a technical related discipline or; • Minimum of 10 years construction trades experience and Minimum 5 years QA/QC experience including experience in non-conformance control, corrective action process and Inspection and Test Plan generation, or; • Minimum 10+ years QA/QC experience including experience in non-conformance control, corrective action process and Inspection and Test Plan generation. • If qualified for inspection activities required to meet QC Inspector requirements by discipline • Comprehensive knowledge of Codes and Standards • Good oral and written communication skills in English. • Computer Literacy; MS Work, Outlook, and Excel

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Supervision of QC Inspectors. Accepting dispositions of nonconformances. 	
12	Quality Assurance/ Control -2	<ul style="list-style-type: none"> • Adhere to and promote organization's QA/QC policies and programs • Interpret and apply requirements from applicable codes, standards, quality procedures, specifications, drawings, and contracts to ensure compliance • Review incoming materials for compliance with contracts and purchase order requirements • Perform and document inspections and surveillance activities • Assist in preparation and review of technical requisitions, author and review procedures, comprehensive work plans, inspection and test plans, and other project plans • Author/lead minor investigations such as corrective actions and continuous improvement, and RFI inquiries 	Education: <ul style="list-style-type: none"> • Trained and qualified with valid certificate • Relevant industry designation Experience: <ul style="list-style-type: none"> • 5 + years of relevant project QA/QC experience • Experience working on projects of medium complexity • Strong leadership, organization, communication and analytical skills
13	Quality Assurance/ Control -3	<ul style="list-style-type: none"> • Adhere to and promote organization's QA/QC policies and programs • Interpret and apply requirements from applicable codes, standards, quality procedures, specifications, drawings, and contracts to ensure compliance • Maintain and develop records management processes, be accountable for care, retrieval, 	Education: <ul style="list-style-type: none"> Qualified to Perform the Tasks Assigned • Trained and qualified with valid certificate Experience: <ul style="list-style-type: none"> • Up to 3 years of relevant project experience • Experience working on projects of low complexity • Strong leadership, organization, communication

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		and transmission of History Documents using internal and external data tools. <ul style="list-style-type: none"> • Support minor investigations such as corrective actions and continuous improvement, and RFI inquiries 	and analytical skills
14	Health Physicist	<ul style="list-style-type: none"> • Perform radiation control duties as they relate to the protection of plant personnel and the general public around the nuclear station • Solve radiation problems arising from reactor units and continually assess the effectiveness of solutions • Participate in the development of training courses and materials to instill a high level of radiation protection knowledge in the station • Report on station radiological conditions and assist in the preparation of reports for outside regulatory authorities 	Education: <ul style="list-style-type: none"> • Qualified to Perform the Tasks Assigned • Bachelor degree in Science or Engineering Experience: <ul style="list-style-type: none"> • 5 - 10 years of relevant radiation protection experience • Working knowledge of operating practices at nuclear plants and typical issues and solutions in radiation protection • Excellent communication and organizational skills
15	Safety Officer-1	<ul style="list-style-type: none"> • Adhere to and promote Health and Safety Program and Employee Health and Safety Policy • Identify training opportunities, develop appropriate training programs, and deliver training to employees • Monitor workplace activities through daily inspections to ensure workers comply with Employee Health and Safety Policy and government safety regulations • Report findings on health and safety 	Education: <ul style="list-style-type: none"> • Degree/diploma in health science , industrial engineering or safety, complemented by 3 years' experience in a trade or • Canadian Registered Safety Professional (CRSP) Certification with 5 years related experience , or • Construction Safety Officer (CSO) designation with 8 years related experience Experience: <ul style="list-style-type: none"> • 10+ years of relevant health and safety industry experience • Experience working on projects of high risk and

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		performance to safety managers • Notify OPG safety management of incidents • Supervise other Safety Staff	complexity • Proven experience in effectively implementing a health and safety program, developing and delivering training programs, and reporting on health and safety performance • Excellent communication and organizational skills
16	Safety Officer-2	• Adhere to and promote Health and Safety Program and Employee Health and Safety Policy • Identify training opportunities, develop appropriate training programs, and deliver training to employees • Monitor workplace activities through daily inspections to ensure workers comply with Employee Health and Safety Policy and government safety regulations • Report findings on health and safety performance to safety managers • Notify OPG safety management of incidents	Education: • Degree/diploma in health science, industrial engineering or safety, complemented by 3 years' experience in a trade or, • Canadian Registered Safety Professional (CRSP) or Construction Safety Officer (CSO) designation with 5 years related experience Experience: • 6-9 years of relevant health and safety industry experience • Experience working on projects of medium risk and complexity • Proven experience in effectively implementing a health and safety program, and reporting on health and safety performance • Excellent communication and organizational skills
17	Safety Officer-3	• Adhere to and promote Health and Safety Program and Employee Health and Safety Policy • Monitor workplace activities through daily inspections to ensure workers comply with	Education: • Degree/diploma in health and safety, or 3 years' experience in a trade Experience: • 0-5 years of relevant health and safety industry

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<p>Employee Health and Safety Policy and government safety regulations</p> <ul style="list-style-type: none"> • Report findings on health and safety performance to safety managers • Notify OPG safety management of incidents 	<p>experience</p> <ul style="list-style-type: none"> • Experience working on projects of low risk and complexity • Excellent communication and organizational skills
18	Student	<ul style="list-style-type: none"> • Assist the team in performing technical activities that support department programs and projects • Provide general administrative support to team 	<p>Education:</p> <ul style="list-style-type: none"> • Pursuing a Bachelor or Technical Degree or Diploma in a relevant field <p>Experience:</p> <ul style="list-style-type: none"> • Demonstrated willingness to learn, work independently, multi-task, and effectively prioritize tasks • Strong organizational, interpersonal and communication skills
19	Project Coordinator-1	<ul style="list-style-type: none"> • Support the project management team in coordinating project planning activities • Work with project management team to develop tools and templates • Implement processes and procedures and conduct training sessions when necessary • Coordinate all project management, engineering and construction activities • Interface between various internal stakeholders (project services, engineering, procurement, construction, quality) • Support the project management team in monitoring project performance (cost, schedule, quality) and assist in completing 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor degree, diploma, certificate or related experience <p>Experience:</p> <ul style="list-style-type: none"> • 10+ years of experience as a project coordinator or equivalent for nuclear power plant industry or related construction/industrial projects • Experience on projects with high risk and complexity • Proven understanding of project management, engineering and construction processes and relevant software • Strong interpersonal, communication, organization, and analytical skills

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		and distributing regular project reports (including issues, status, and KPIs) to key stakeholders • Support the coordination of project close-out activities and transfer to operations	
20	Project Coordinator-2	• Support the project management team in coordinating project planning activities • Work with project management team to develop tools and templates • Implement processes and procedures and conduct training sessions when necessary • Coordinate all project management, engineering and construction activities • Interface between various internal stakeholders (project services, engineering, procurement, construction, quality) • Support the project management team in monitoring project performance (cost, schedule, quality) and assist in completing and distributing regular project reports (including issues, status, and KPIs) to key stakeholders • Support the coordination of project close-out activities and transfer to operations	Education and Designations: • Bachelor degree, diploma, certificate or related experience Experience: • 6-9 years of experience as a project coordinator or equivalent for nuclear power plant industry or related construction/industrial projects • Experience on projects with medium risk and complexity • Developing understanding of project management, engineering and construction processes and relevant software • Strong interpersonal, communication, organization, and analytical skills
21	Project Coordinator-3	• Support the project management team in coordinating project planning activities • Work with project management team to develop tools and templates	Education and Designations: • Bachelor degree, diploma, certificate or related experience Experience:

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Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Implement processes and procedures and conduct training sessions when necessary • Coordinate all project management, engineering and construction activities • Interface between various internal stakeholders (project services, engineering, procurement, construction, quality) • Support the project management team in monitoring project performance (cost, schedule, quality) and assist in completing and distributing regular project reports (including issues, status, and KPIs) to key stakeholders • Support the coordination of project close-out activities and transfer to operations 	<ul style="list-style-type: none"> • 0-5 years of experience as a project coordinator or equivalent for nuclear power plant industry or related construction/industrial projects • Experience on projects with low risk and complexity preferred • Basic understanding of project management, engineering and construction processes, procedures and relevant software • Strong interpersonal, communication, organization, and analytical skills
22	Project Controls-1	<ul style="list-style-type: none"> • Work with project management team, planners and estimators in developing project plans (cost, schedule, risk, scope and change management plans) • Work with project management team in developing project's internal controls processes and procedures • Track and evaluate cost and schedule trends and variances and adjust forecasts as required • Manage and maintain project risk register • Conduct analysis and prepare progress reports on costs, schedule and risks • Support project close-out reporting and 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor degree, diploma, designation or related experience <p>Experience:</p> <ul style="list-style-type: none"> • 10+ years of project controls experience for nuclear power plant industry or related construction/industrial projects • Experience on projects with high risk and complexity • Proven understanding of project management, engineering and construction processes • Experience in cost and schedule development and monitoring practices and procedures • Experience in relevant project controls software

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		documentation activities as required • Supervise other Project Controls Staff	• Strong interpersonal, communication, organization, and analytical skills
23	Project Controls-2	<ul style="list-style-type: none"> • Work with project management team, planners and estimators in developing project plans (cost, schedule, and risk, scope and change management plans) • Work with project management team in developing project's internal controls processes and procedures • Track and evaluate cost and schedule trends and variances and adjust forecasts as required • Manage and maintain project risk register • Conduct analysis and prepare progress reports on costs, schedule and risks • Support project close-out reporting and documentation activities as required 	Education and Designations: • Bachelor Degree, diploma or related experience Experience: • 6-9 years of project controls experience on EPC projects • Experience on projects with medium risk and complexity • Proven understanding of project management, engineering and construction processes • Experience in cost and schedule development and monitoring practices and procedures • Experience in relevant project controls software • Strong interpersonal, communication, organization, and analytical skills
24	Project Controls-3	<ul style="list-style-type: none"> • Work with project management team, planners and estimators in developing project plans (cost, schedule, and risk, scope and change management plans) • Work with project management team in developing project's internal controls processes and procedures • Track and evaluate cost and schedule trends and variances and adjust forecasts as required • Manage and maintain project risk register • Conduct analysis and prepare progress reports on costs, schedule and risks 	Education and Designations: • Related experience Experience: • 0-5 years of project controls or similar experience on EPC projects • Experience on projects with low risk and complexity preferred • Proven understanding of project management, engineering and construction processes preferred • Experience in cost and schedule development and monitoring practices and procedures preferred • Experience in relevant project controls software

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> Support project close-out reporting and documentation activities as required 	<p>preferred</p> <ul style="list-style-type: none"> Strong interpersonal, communication, organization, and analytical skills
25	Planner-1	<ul style="list-style-type: none"> Work with Project Managers/teams to plan, organize, direct, control, and evaluate projects to ensure work packages are created, processed and delivered. Conduct analysis to determine duration of project activities and identify interdependencies to meet project scope of work Provide support to other stakeholders and groups as required Follow all related Managed System Procedures as they relate to Construction/Maintenance work packages Interpret design documentation for scope installation Write Detailed work instructions to accomplish field implementation – this may include becoming familiar with and referencing to client station procedures, standards, and specifications Apply Knowledge of construction methods and station configuration to create the work task structure breakdown to implement the project Accumulate all the necessary technical documents for construction activities 	<p>Education and Designations:</p> <ul style="list-style-type: none"> Bachelor's Degree in Engineering or College Technical Diploma in related discipline Apprenticeship training or related experience <p>Experience:</p> <ul style="list-style-type: none"> 10+ years related experience with projects Good communication and computer skills and able to demonstrate an understanding relevant Work Planning or Work Management software tools Experience in planning related discipline work packages Experience in managing people and processes

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Preparing work packages for field execution as they relate to the appropriate trade groups • Liaison with Design and supplier groups • Strong leadership, communication, organization, and analytical skills 	
26	Planner-2	<ul style="list-style-type: none"> • Conduct analysis to determine duration of project activities and identify interdependencies to meet project scope of work • Follow all related Managed System Procedures as they relate to Construction/Maintenance work packages • Interpret design documentation for scope installation • Write Detailed work instructions to accomplish field implementation – this may include becoming familiar with and referencing to client station procedures, standards, and specifications • Apply Knowledge of construction methods and station configuration to create the work task structure breakdown to implement the project • Accumulate all the necessary technical documents for construction activities • Preparing work packages for field execution 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering or College Technical Diploma in related discipline • Apprenticeship training or related experience <p>Experience:</p> <ul style="list-style-type: none"> • 6-9 years of project scheduling experience for nuclear power plant industry or related construction/industrial projects • Experience on projects with medium risk and complexity • Proven understanding of project management, engineering and construction processes • Experience in planning related discipline work packages • Good communication and computer skills and able to demonstrate an understanding relevant Work Planning or Work Management software tools if applicable

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		as they relate to the appropriate trade groups • Liaison with Design and supplier groups	
27	Planner-3	<ul style="list-style-type: none"> Follow all related Managed System Procedures as they relate to Construction/Maintenance work packages Interpret design documentation for scope installation Write Detailed work instructions to accomplish field implementation – this may include becoming familiar with and referencing to client station procedures, standards, and specifications Apply Knowledge of construction methods and station configuration to create the work task structure breakdown to implement the project Accumulate all the necessary technical documents for construction activities Preparing work packages for field execution as they relate to the appropriate trade groups Liaison with Design and supplier groups 	Education and Designations: <ul style="list-style-type: none"> Bachelor Degree in Engineering or College Technical Diploma in related discipline Apprenticeship training or related experience Experience: <ul style="list-style-type: none"> 0-5 years of project scheduling experience for nuclear power plant industry or related construction/industrial projects Experience on projects with medium risk and complexity Proven understanding of project management, engineering and construction processes Experience in planning related discipline work packages Good communication and computer skills and able to demonstrate an understanding relevant Work Planning or Work Management software tools if applicable
28	Estimator-1	<ul style="list-style-type: none"> Collect and analyze relevant cost information Identify labor, equipment, material, and time requirements by analyzing project scope, requirements, and technical specifications Assist with the development of WBS and 	Education and Designations: <ul style="list-style-type: none"> Bachelor Degree in Engineering (or related discipline) or College technical Diploma or related experience Relevant designations preferred

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<p>schedules</p> <ul style="list-style-type: none"> • Conduct quantity take-off estimates based on engineering drawings and specifications to compute labor and materials costs to support budget development and change management • Work with project manager to develop overall project budget and cost baseline • Supervise other Estimating Staff 	<p>Experience:</p> <ul style="list-style-type: none"> • 10 years of estimating experience for nuclear projects in an EPC environment power plant industry or related construction/industrial projects • Experience on projects with high risk and complexity • Proven experience with industry standards and cost estimating software • Strong communication, organization, analytical, and relevant technical skills
29	Estimator-2	<ul style="list-style-type: none"> • Collect and analyze relevant cost information • Identify labor, equipment, material, and time requirements by analyzing project scope, requirements, and technical specifications • Assist with the development of WBS and schedules • Conduct quantity take-off estimates based on engineering drawings and specifications to compute labor and materials costs to support budget development and change management • Work with project manager to develop overall project budget and cost baseline 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering (or related discipline) or College technical Diploma or related experience • Relevant designations preferred <p>Experience:</p> <ul style="list-style-type: none"> • 6 years of estimating experience for related construction/industrial projects • Experience on projects with medium risk and complexity • Proven experience with industry standards and cost estimating software • Strong communication, organization, analytical, and relevant technical skills
30	Estimator-3	<ul style="list-style-type: none"> • Collect and analyze relevant cost information • Identify labor, equipment, material, and time requirements by analyzing project scope, requirements, and technical specifications • Assist with the development of WBS and 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering (or related discipline) or College technical Diploma or related experience • Relevant designations preferred

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		schedules • Conduct quantity take-off estimates based on engineering drawings and specifications to compute labor and materials costs to support budget development and change management • Work with project manager to develop overall project budget and cost baseline	Experience: • up to 6 years of estimating or equivalent in related construction/industrial projects • Experience on projects with low risk and complexity worth • Proven experience with industry standards and cost estimating software • Strong communication, organization, analytical, and relevant technical skills
31	Procurement-1	• Understand vendor marketplace and market conditions • Understand technical specifications and needs of end-users • Plan, coordinate and execute procurement activities for equipment, materials and services • Review bidder information, prepare and issue RFP and tender documents, evaluate bids, and provide recommendations • Negotiate contracts as required • Complete contract administration activities • Work with QC inspectors to conduct surveillance and inspection and test plans as required • Review and escalate claims as required • Communicate relevant information to internal stakeholders (engineering, construction, QC, accounts payable)	Education and Designations: • Bachelor Degree in Engineering (or related discipline) or related experience • Relevant designations preferred Experience: • 10 years of procurement experience preferably for nuclear projects in an EPC environment • Experience on projects with high risk and complexity • Proven understanding of procurement and contract administration process • Strong communication, organization, analytical, and negotiation skills

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Monitor and track vendor performance • Develop and maintain relationships with existing and prospective vendors • Supervise other Procurement Staff 	
32	Procurement-2	<ul style="list-style-type: none"> • Understand vendor marketplace and market conditions • Understand technical specifications and needs of end-users • Plan, coordinate and execute procurement activities for equipment, materials and services • Review bidder information, prepare and issue RFP and tender documents, evaluate bids, and provide recommendations • Negotiate contracts as required • Complete contract administration activities • Work with QC inspectors to conduct surveillance and inspection and test plans as required • Review and escalate claims as required • Communicate relevant information to internal stakeholders (engineering, construction, QC, accounts payable) • Monitor and track vendor performance • Develop and maintain relationships with existing and prospective vendors 	Education and Designations: <ul style="list-style-type: none"> • Bachelor Degree in Engineering (or related discipline) or related experience • Relevant designations preferred Experience: <ul style="list-style-type: none"> • 5 years of procurement experience preferably for nuclear projects in an EPC environment • Experience on projects with medium risk and complexity • Proven understanding of procurement and contract administration process • Strong communication, organization, analytical, and negotiation skills
33	Procurement-3	<ul style="list-style-type: none"> • Understand vendor marketplace and market conditions 	Education and Designations: <ul style="list-style-type: none"> • Bachelor Degree in Engineering (or related

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Understand technical specifications and needs of end-users • Plan, coordinate and execute procurement activities for equipment, materials and services • Review bidder information, prepare and issue RFP and tender documents, evaluate bids, and provide recommendations • Negotiate contracts as required • Complete contract administration activities • Work with QC inspectors to conduct surveillance and inspection and test plans as required • Review and escalate claims as required • Communicate relevant information to internal stakeholders (engineering, construction, QC, accounts payable) • Monitor and track vendor performance • Develop and maintain relationships with existing and prospective vendors 	<p>discipline) or related experience</p> <ul style="list-style-type: none"> • Relevant designations preferred <p>Experience:</p> <ul style="list-style-type: none"> • up to 5 years procurement or equivalent experience in an industry with robust supplier requirements such as pharmaceutical, medical, aeronautics, automotive, or nuclear • Experience on projects with low risk and complexity • Proven understanding of procurement and contract administration process • Strong communication, organization, analytical, and negotiation skills
34	Design Authority	<ul style="list-style-type: none"> • Provide overall technical direction and guidance • Approve technical specifications • Manage engineering design work for all phases of the project • Approve preliminary and detailed design drawings and materials and equipment specifications 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering • Professional Engineer (P.Eng.) <p>Experience:</p> <ul style="list-style-type: none"> • 15 years of engineering design experience in an EPC environment for projects of high risk and complexity • Proven understanding of industry regulatory

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Review and approve engineering estimates • Review and authorize design modifications • Oversee project documentation and as-built drawings • Provide guidance in resolving complex design and field engineering problems as needed • Liaise with internal and external stakeholders as required • Monitor progress and communicate status to project management team and internal stakeholders • Ensure that project objectives and technical requirements of project are met 	standards, technical systems, equipment, methodologies, materials and design practices and criteria • Strong communication, organization, analytical, and design skills • Equivalent Job Title/Classification is Engineering Director or Manager.
35	Supervising Design Engineer	<ul style="list-style-type: none"> • Provide technical direction and guidance • Review technical specifications • Manage engineering design work for all phases of the project • Review preliminary and detailed design drawings and materials and equipment specifications • Review engineering calculations • Review estimates and support estimators and planners in the development of project budget and schedule • Review design modifications • Review project documentation and as-built drawings • Provide guidance in resolving complex design 	Education and Designations: • Bachelor Degree in Engineering • Professional Engineer (P.Eng.) Experience: • 10 to 15 years of engineering design experience in an EPC environment for projects of high risk and complexity • Proven understanding of industry regulatory standards, technical systems, equipment, methodologies, materials and design practices and criteria • Proven experience with relevant design software • Strong communication, organization, analytical, and design skills • Equivalent Job Title/Classification is Lead Discipline Engineer.

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> and field engineering problems as needed • Liaise with internal and external stakeholders as required • Monitor progress and communicate status to Design Authority and internal stakeholders • Ensure that project objectives and technical requirements of project are met 	
36	Design Engineer-I	<ul style="list-style-type: none"> • Prepare technical specifications • Produce or review preliminary and detailed design drawings, materials and equipment specifications in accordance with scope • Provide guidance to drafters for the completion of engineering packages and design deliverables • Ensure that designs comply with all applicable codes, regulations and standards • Perform engineering calculations • Support estimators and planners in the development of project budget and schedule • Coordinate with procurement group to prepare material specifications • Respond to information requests from site and complete project documentation and as-built drawings • Investigate, advise and resolve design and field engineering problems of medium complexity • Coordinate with other engineering disciplines 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • Bachelor Degree in Engineering • Professional Engineer (P.Eng.) <p>Experience:</p> <ul style="list-style-type: none"> • 6 to 10 years of engineering design experience in an EPC environment • Experience on projects with medium risk and complexity • Proven understanding of industry codes and standards, design criteria, technical systems, methodologies, equipment and materials • Proven experience with relevant design software • Strong communication, organization, analytical, and design skills

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		and liaise with internal and external stakeholders as required • Communicate relevant information to Supervising Design Engineer on a regular basis to support project reporting	
37	Design Engineer-2	• Prepare technical specifications • Prepare preliminary and detailed design drawings, materials and equipment specifications in accordance with scope • Provide guidance to drafters for the completion of engineering packages and design deliverables • Ensure that designs comply with all applicable codes, regulations and standards • Perform engineering calculations • Support estimators and planners in the development of project budget and schedule • Coordinate with procurement group to prepare material specifications • Respond to information requests from site and complete project documentation and as-built drawings • Investigate, advise and resolve design and field engineering problems of low complexity • Coordinate with other engineering disciplines and liaise with internal and external stakeholders as required • Communicate relevant information to	Education and Designations: • Bachelor Degree in Engineering • Professional Engineer (P.Eng.) Experience: • 4 to 6 years of engineering design experience in an EPC environment • Experience on projects with low risk and complexity • Proven understanding of industry codes and standards, design criteria, technical systems, methodologies, equipment and materials • Proven experience with relevant design software • Strong communication and organizational skills • Proven analytical, and design skills

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Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		Supervising Design Engineer on a regular basis to support project reporting	
38	Design Engineer-3	<ul style="list-style-type: none"> • Coordinate and communicate relevant information between all parties involved in the engineering and design • Coordinate with other engineering disciplines and liaise with internal and external stakeholders, including procurement and construction teams • Review industry codes and standards and project specifications and, with appropriate supervision, ensure they are incorporated into deliverables • With appropriate supervision, perform design calculations and complete material take offs and bill of materials, as required • Report issues, risks, and overall status of deliverables through regular documentation and reporting 	Education and Designations: <ul style="list-style-type: none"> • Bachelor Degree in Engineering • Engineer-in-Training (EIT) Experience: <ul style="list-style-type: none"> • 0-4 years of engineering experience • Ability to understand and adhere to industry codes and standards and design practices • Basic knowledge of relevant design software • Demonstrated aptitude for learning and attention to detail • Strong interpersonal, communication, organization skills • Basic analytical skills
39	Technical Associate-1 No PEO Designation	<ul style="list-style-type: none"> • Development of complex problem resolution methods in their specific area of expertise • Provide field, technical and modification planning support to the project team in support of preparing project deliverables, during the life cycle of the project. • Prepare non-engineering project deliverables • Ensure critical aspects of nuclear safety are considered and key client stakeholders inputs 	Education and Designations: <ul style="list-style-type: none"> • University Degree, College Diploma or equivalent with emphasis in engineering, management, applied science or specific technical expertise or combination of these knowledge areas • P. Eng is an asset • PMI PMP or equivalent designation an asset Experience: <ul style="list-style-type: none"> • 10 - 15 Years of related experience

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<p>and processes are applied in the preparation of plans</p> <ul style="list-style-type: none"> • Support the project team as required • Interface under the direction of the Design Authority with the customer with respect to work planning/coordination with the client staff in support of design products, as well responsible for supporting the resolution of any project issues • Technical capability to read/understand mechanical, civil, electrical and instrumentation control design drawings, documents and vendor manuals 	<ul style="list-style-type: none"> • Significant experience and knowledge of complex projects especially projects that include engineering, conventional safety, nuclear safety, or specific hazards associated with the generation of electricity utilizing nuclear power • Significant experience in the design, operation, maintenance or construction of electric generating stations or other large process facilities
40	Technical Associate-2 No PEO Designation	<ul style="list-style-type: none"> • Development of resolution methods for problems of medium complexity in their specific area of expertise • Provide field, technical and modification planning support to the project team in support of preparing project deliverables, during the life cycle of the project. • Prepare non-engineering project deliverables • Ensure critical aspects of nuclear safety are considered and key client stakeholders inputs and processes are applied in the preparation of plans • Support the project team as required • Interface under the direction of the Design Authority with the customer 	<p>Education and Designations:</p> <ul style="list-style-type: none"> • University Degree, College Diploma or equivalent with emphasis in engineering, management, applied science or specific technical expertise or combination of these knowledge areas • P. Eng. is an asset • PMI PMP or equivalent designation an asset <p>Experience:</p> <ul style="list-style-type: none"> • 5 - 10 Years of related experience • Good understanding of Nuclear Power Plant design and operation. • Good understanding of the operation of a Canadian Deuterium (CANDU) power plant is desirable.

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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
		<ul style="list-style-type: none"> • Technical capability to read/understand mechanical, civil, electrical and instrumentation control design drawings, documents and vendor manuals 	
41	Technical Associate-3 No PEO Designation	<ul style="list-style-type: none"> • Development of resolution methods for problems of low complexity in their specific area of expertise • Provide field, technical and modification planning support to the project team • Prepare non-engineering project deliverables • Support the project team as required • Technical capability to read/understand mechanical, civil, electrical and instrumentation control design drawings, documents and vendor manuals 	Education and Designations: <ul style="list-style-type: none"> • University Degree, College Diploma or equivalent with emphasis in engineering, management, applied science or specific technical expertise or combination of these knowledge areas • PMI PMP or equivalent designation an asset Experience: <ul style="list-style-type: none"> • up to 4 Years of related experience • Good understanding of Nuclear Power Plant design and operation.
42	Drafting-1	<ul style="list-style-type: none"> • Provide drafting support for production of engineering packages and design deliverables, including preparing and updating conceptual design and detailed construction drawings under the direction of a Design Engineer • Complete material take offs as required • Coordinate with other engineering disciplines as required • Communicate status and issues with design team on a regular basis 	Education and Designations: <ul style="list-style-type: none"> • Technical degree, diploma, or relevant practical experience Experience: <ul style="list-style-type: none"> • 5 - 10 years of drafting experience in an EPC environment for projects of high risk and complexity • Understanding of industry codes and standards, design criteria, technical systems, methodologies, equipment and materials • Proven experience with relevant CAD software • Strong communication, and organizational skills

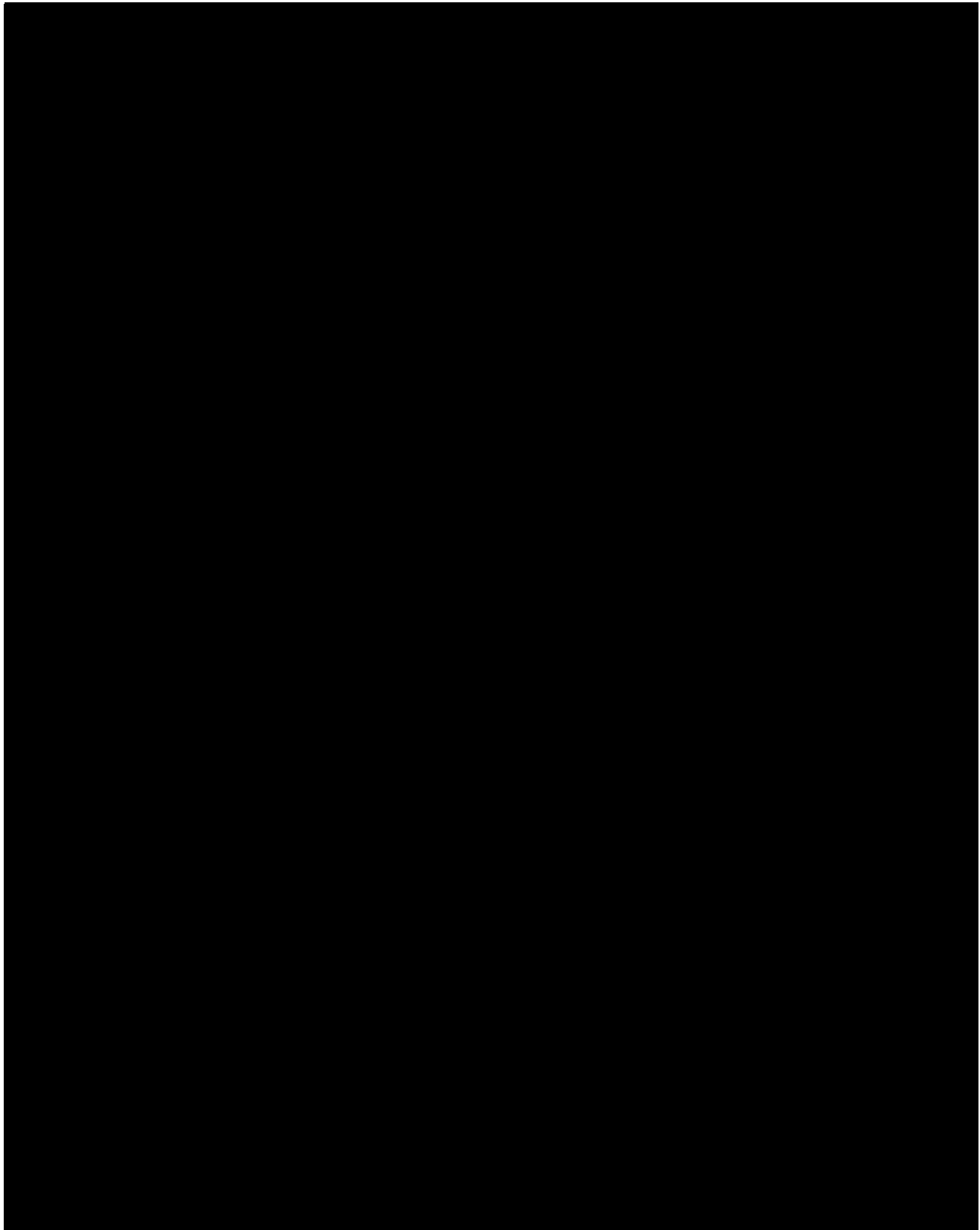
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EXECUTION VERSION

Sr. No	Classification	Job Description	Expected Qualifications & Attributes
43	Drafting-2	<ul style="list-style-type: none">• Provide drafting support for production of engineering packages and design deliverables, including preparing and updating conceptual design and detailed construction drawings under the direction of a Design Engineer• Assist in the completion of material take offs, as required• Communicate status and issues with design team on a regular basis	Education and Designations: <ul style="list-style-type: none">• Technical degree, diploma, or relevant practical experience Experience: <ul style="list-style-type: none">• 0 - 4 years of drafting experience in an EPC environment• Understanding of industry codes and standards, design criteria, technical systems, methodologies, equipment and materials• Experience with relevant CAD software• Strong communication, and organizational skills

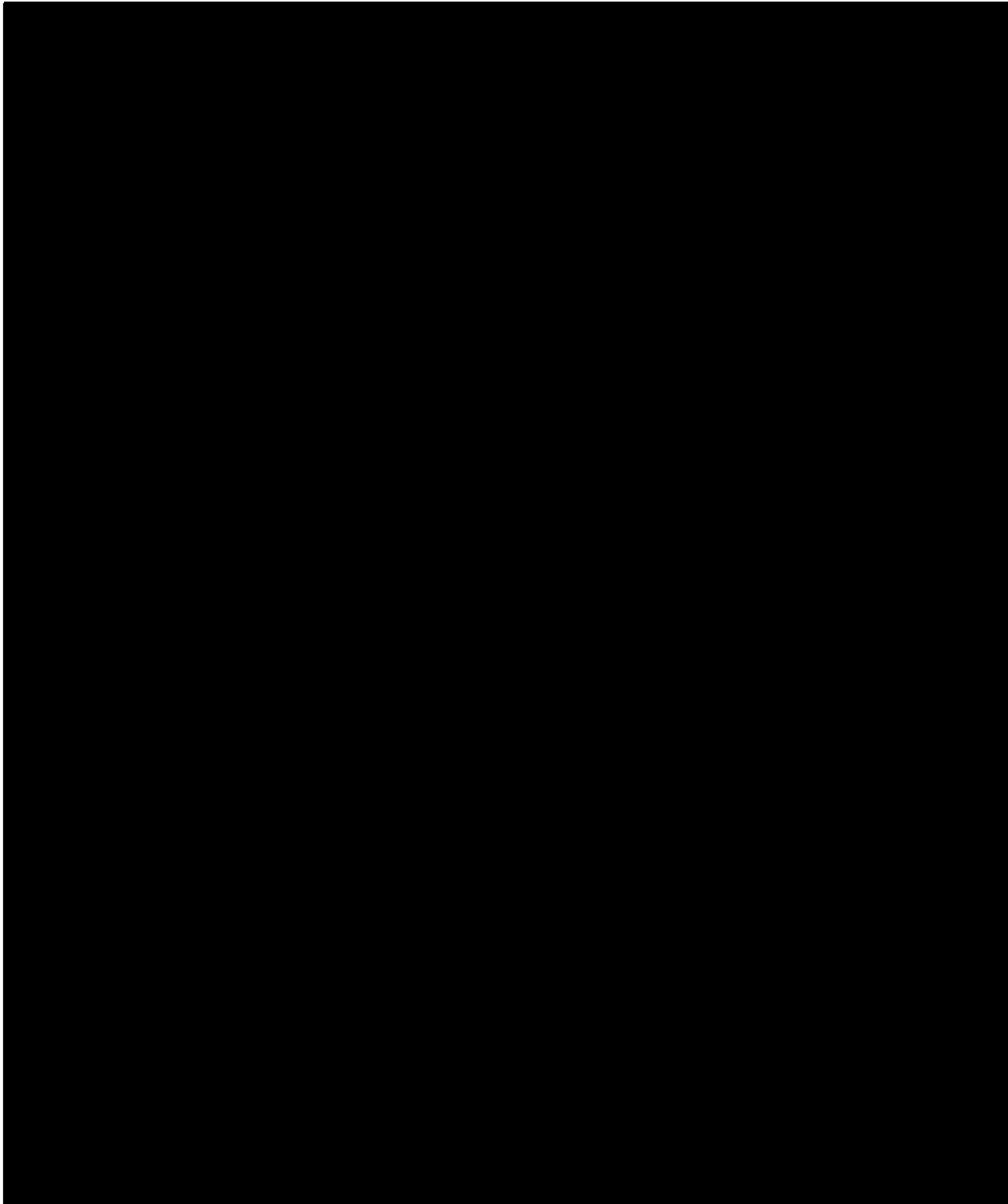
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