FERC rendition of the electronically filed tariff records in Docket No.

Filing Data:

CID: C000038

Filing Title: Cost Reimbursement Agreement between NYSEG and Niagara Mohawk and Request for Confidential Treatment of CEII

Company Filing Identifier: 791   
Type of Filing Code: 10   
Associated Filing Identifier:   
Tariff Title: NYISO Agreements   
Tariff ID: 58

Payment Confirmation: N   
Suspension Motion:

Tariff Record Data:

Record Content Description: Agreement No. 2056

Tariff Record Title: Cost Reimbursement Agreement between NYSEG and Niagara Mohawk Record Version Number: 0.0.0

Option Code: A

Tariff Record ID: 130

Tariff Record Collation Value: 7071000

Tariff Record Parent Identifier: 2

Proposed Date: 2013-10-01

Priority Order: 500

Record Change Type: New   
Record Content Type: 2   
Associated Filing Identifier:

Service Agreement No. 2056

Cost Reimbursement Agreement   
 By and Between

New York State Electric & Gas Corporation   
 and

Niagara Mohawk Power Corporation d/b/a National Grid

Luther Forest Cost Reimbursement Agreement

COST REIMBURSEMENT AGREEMENT

This COST REIMBURSEMENT AGREEMENT (the “Agreement”), is made and entered into as ofOctober 1, 2013 (the “Effective Date”), by and between NEW YORK STATE ELECTRIC & GAS CORPORATION, a utility organized and existing under the laws of NEW York State, having an office and place of business at 18 Link Dr., Binghamton New York 13902 (“Customer” or “NYSEG”) and NIAGARA MOHAWK POWER CORPORATION d/b/a National Grid, a corporation organized and existing under the laws of the State of New York, having an office and place of business at 300 Erie Boulevard West, Syracuse, New York 13202 (the “Company” or “National Grid”). Customer and Company may be referred to hereunder, individually, as a “Party” or, collectively, as the “Parties”.

WITNESSETH

WHEREAS, the Customer is proceeding with the connection of their new 115kV -

34.5kV station (the “New Station”), located adjacent to the existing National Grid/Luther Forest   
station, to the existing two (2) 115kV busses at such existing National Grid/Luther Forest station;   
and

WHEREAS, Customer has requested that Company perform certain Work as described herein; and

WHEREAS, Company is willing to perform the Work, subject to reimbursement by Customer of all Company costs and expenses incurred in connection therewith;

NOW, THEREFORE, in consideration of the premises and the mutual covenants set forth herein, the Parties agree as follows:

1.0 Certain Definitions

Wherever used in this Agreement with initial capitalization, whether in the singular or the plural, these terms shall have the following meanings:

“Affiliate” means any person or entity controlling, controlled by, or under common control with, any other person; “control” of a person or entity shall mean the ownership of, with right to vote, 50% or more of the outstanding voting securities, equity, membership interests, or equivalent, of such person or entity.

“Agreement” means this Cost Reimbursement Agreement, including all annexes, appendices, attachments, schedules, and exhibits and any subsequent written amendments or modifications thereto, as may be mutually agreed to and executed by the Parties.

“Applicable Requirements” shall mean all applicable federal, state and local laws,   
regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or

Luther Forest Cost Reimbursement Agreement 1

administrative orders, permits and other duly authorized actions of any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction, NYISO, NPCC, and NYSRC requirements, and any applicable reliability standards.

“Balance Amount” shall have the meaning set forth in Section 8.1 of this Agreement. “Breaching Party” shall have the meaning set forth in Section 21.1 of this Agreement. “CEII” shall have the meaning set forth in Section 25.4 of this Agreement.

“Company Reimbursable Costs” means the actual costs and expenses incurred by Company   
and/or its Affiliates in connection with performance of the Work or otherwise incurred by   
Company and/or its Affiliates in connection with the Project or this Agreement, and   
including, without limitation, any such costs that may have been incurred by Company   
and/or its Affiliates prior to the Effective Date. These Company Reimbursable Costs shall   
include, without limitation, the actual expenses for labor (including, without limitation,

internal labor), services, materials, subcontracts, equipment or other expenses incurred in the execution of the Work or otherwise in connection with the Project, all applicable overhead, all federal, state and local taxes incurred (including, without limitation, all taxes arising from amounts paid to Company that are deemed to be contributions in aid of construction), all costs of outside experts, consultants, counsel and contractors, all other third-party fees and costs, and all costs of obtaining any required permits, rights, consents, releases, approvals, or authorizations, including, without limitation, the Required Approvals.

“Damages” shall have the meaning set forth in Section 12.1 of this Agreement.

“Day” means a calendar day, provided, that, if an obligation under this Agreement falls due   
on a Saturday, Sunday or legal holiday, the obligation shall be due the next business day   
worked.

“Disclosing Party” shall mean the Party disclosing Proprietary Information. “Dollars” and “$” mean United States of America dollars.

“Effective Date” shall have the meaning specified in the preamble of this Agreement.

“Environment” shall mean soil, surface waters, groundwaters, land, stream sediments, surface or subsurface strata, and ambient air.

“Environmental Law” shall mean any environmental or health-and-safety-related law, regulation, rule, ordinance, or by-law at the federal, state, or local level, whether existing as of the Effective Date, previously enforced or subsequently enacted, or any judicial or administrative interpretation thereof.

Luther Forest Cost Reimbursement Agreement 2

“FERC” shall mean the Federal Energy Regulatory Commission.

“Force Majeure Event” shall have the meaning set forth in Section 23.1 of this Agreement.

“Good Utility Practice” means any of the practices, methods, and acts engaged in or   
approved by a significant portion of the electric utility industry during the relevant time   
period, or any of the practices, methods, and acts which, in the exercise of reasonable   
judgment in light of the facts known at the time the decision was made, could have been   
expected to accomplish the desired result at a reasonable cost consistent with good business   
practices, reliability, safety, and expedition. Good Utility Practice is not intended to be   
limited to the optimum practice, method, or act, to the exclusion of all others, but rather to   
refer to acceptable practices, methods, or acts generally accepted in the region in which the   
Project is located. Good Utility Practice shall include, but not be limited to, NERC, NPCC,   
NYSRC, and NYISO criteria, rules, guidelines, and standards, where applicable, and as they   
may be amended from time to time, including the rules, guidelines, and criteria of any   
successor organization to the foregoing entities.

“Hazardous Substances” means any pollutant, contaminant, toxic substance, hazardous material, hazardous waste, or hazardous substance, or any oil, petroleum, or petroleum product, as defined in or pursuant to the Federal Clean Water Act, as amended, the Comprehensive Environmental Response, Compensation and Liability Act, as amended, 42 U.S.C. Section 9601, et seq., the Resource Conservation and Recovery Act, as amended, 42 U.S.C. Section 6901, et seq., or any other Environmental Law.

“Indemnified Party” and “Indemnified Parties” shall have the meanings set forth in Section

12.1 of this Agreement.

“Indemnifying Party” shall have the meaning set forth in Section 12.1 of this Agreement.   
“Initial Prepayment” shall have the meaning set forth in Section 7.1 of this Agreement.

“Monthly Report” shall have the meaning set forth in Section 7.3 of this Agreement.

“NPCC” shall mean the Northeast Power Coordinating Council, Inc. (a reliability council under Section 202 of the Federal Power Act) or any successor organization.

“NERC” shall mean the North American Electric Reliability Corporation or any successor organization.

“Non-Breaching Party” shall have the meaning set forth in Section 21.1 of this Agreement.   
“Non-Disclosure Term” shall have the meaning set forth in Section 25.3.4 of this Agreement.

Luther Forest Cost Reimbursement Agreement 3

“NYISO” shall mean the New York Independent System Operator, Inc. or any successor organization.

“NYPSC” shall mean the New York Public Service Commission.

“NYSRC” shall mean the New York State Reliability Council or any successor organization.   
“Party” and “Parties” shall have the meanings set forth in the preamble to this Agreement.

“Projected Milestone Schedule” shall have the meaning set forth in Section 5.3 of this Agreement.

“Project” means the Work to be performed under this Agreement by the Company.

“Project Manager” means the respective representative of the Customer and the Company appointed pursuant to Section 27.1 of this Agreement.

“Proprietary Information” means (i) all financial, technical and other non-public or

proprietary information which is furnished or disclosed by the Disclosing Party or its   
Affiliates (or its or its Affiliates’ agents, servants, contractors, representatives, or employees)   
to the Receiving Party or its Representative(s) in connection with this Agreement and that is   
described or identified (at the time of disclosure) as being non-public, confidential or

proprietary, or the non-public or proprietary nature of which is apparent from the context of   
the disclosure or the contents or nature of the information disclosed, (ii) any market sensitive   
information (including, without limitation, outages scheduled on generators or transmission   
lines of Company or any third party), (iii) all CEII and (iv) all memoranda, notes, reports,   
files, copies, extracts, inventions, discoveries, improvements or any other thing prepared or   
derived from any information described in subparts (i) through (iii) preceding.

“Receiving Party” shall mean the Party receiving Proprietary Information.

“Reimbursement Amount” shall have the meaning set forth in Section 8.1 of this Agreement.

“Release” shall mean any releasing, spilling, leaking, contaminating, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, disposing or dumping of any Hazardous Substances into the Environment.

“Representatives” shall, for the purposes of Article 25 of this Agreement, mean the Affiliates of a Party and such Party’s and its Affiliates’ officers, directors, employees, contractors, counsel and representatives.

“Requesting Party” shall have the meaning set forth in the Real Property Standards.

“Required Approvals” shall have the meaning set forth in Section 27.12 of this Agreement.

Luther Forest Cost Reimbursement Agreement 4

“Resources” shall have the meaning set forth in Section 23.1 of this Agreement.

“Threat of Release” shall mean a substantial likelihood of a Release that requires action to prevent or mitigate damage to the Environment that may result from such Release.

“Site” shall mean Luther Forest Station.

“Subcontractor” means any organization, firm or individual, regardless of tier, which Company retains in connection with the Agreement.

“Total Payments Made” shall have the meaning set forth in Section 8.1 of this Agreement.   
“Work” shall have the meaning specified in Section 3.1 of this Agreement.   
“Work Cost Estimate” shall have the meaning set forth in Section 6.1 of this Agreement.

2.0 Term

2.1 This Agreement shall become effective as of the Effective Date and shall remain

in full force and effect until performance has been completed hereunder, or until   
terminated in accordance with the terms of this Agreement, whichever occurs   
first, provided, however, that this Agreement shall not expire or terminate until all   
amounts due and owing hereunder have been paid in full as contemplated by this   
Agreement.

3.0 Scope of Work

3.1 The scope of work is set forth in Exhibit A of this Agreement, attached hereto and

incorporated herein by reference (the “Work”).

3.2 Company shall use commercially reasonable efforts to perform the Work in

accordance with Good Utility Practice. Prior to the expiration of one (1) year   
following completion of the Work, Customer shall have the right to notify the   
Company of the need for correction of defective Work that does not meet the   
standards of this Section 3.2. If the Work is defective within the meaning of the   
prior sentence, the Company shall promptly complete, correct, repair or replace   
such defective Work, as appropriate. The remedy set forth in this Section is the   
sole and exclusive remedy granted to Customer for any failure of Company to   
meet the performance standards or requirements set forth in this Agreement.

4.0 Changes in the Work

4.1 Prior to commencement of the Work, each Party shall provide a written notice to

the other Party containing the name and contact information of such Party’s

Project Manager.

Luther Forest Cost Reimbursement Agreement 5

4.2 If Customer wishes to request a change in the Work, such request shall be

submitted to the Company in writing. If, as a result of any such request, the Parties agree to a change in the Work, the agreed change will be set forth in a written document signed by both Parties specifying such change. The Projected Milestone Schedule and the Work Cost Estimate shall be adjusted and/or extended as mutually agreed by the Parties to reflect any such agreed change to the Work. Any additional costs arising from such change shall be paid by the Customer as part of Company Reimbursable Costs when invoiced by the Company in accordance with Section 7.2 of this Agreement.

4.3 Notwithstanding the above, Company may make any reasonable changes in the

Work to ensure the completion of the Project or prevent delays in the schedule. Company shall provide Customer with written notice of any such changes to the Work within fifteen (15) business days after such changes are implemented. The Projected Milestone Schedule and the Work Cost Estimate shall be adjusted accordingly and any additional costs shall be paid by the Customer as part of Company Reimbursable Costs when invoiced by the Company in accordance with Section 7.2 of this Agreement.

The foregoing notwithstanding, the Company is not required to obtain the consent   
of the Customer for any change to the Work if such change is made in order to   
comply with any Applicable Requirement(s) or Good Utility Practice or to enable   
Company’s utility facilities to continue, commence or recommence commercial   
operations in accordance with all applicable legal and regulatory requirements and   
all applicable industry codes and standards. The Projected Milestone Schedule   
and the Work Cost Estimate shall be adjusted accordingly and any additional   
costs shall be paid by the Customer as part of Company Reimbursable Costs when   
invoiced by the Company in accordance with Section 7.2 of this Agreement.

5.0 Performance and Schedule; Conditions to Proceed

5.1 The Company shall use commercially reasonable efforts to have any Work

performed by its direct employees performed during normal working hours. The foregoing notwithstanding, if Work is performed outside of normal working hours, Customer shall be responsible for paying all actual costs incurred in connection therewith, including, without limitation, applicable overtime costs, as part of Company Reimbursable Costs.

5.2 If Customer requests, and the Company agrees, to work outside normal working

hours due to delays in the Project schedule or for other reasons, Company shall be entitled to recover all resulting costs as part of Company Reimbursable Costs.

5.3 The Projected Milestone Schedule is set forth in Exhibit B, attached hereto and

incorporated herein by reference. The Projected Milestone Schedule is n projection only and is subject to change. Neither Party shall be liable for failure to meet the Preliminary Milestone Schedule, any milestone, or any other projected or preliminary schedule in connection with this Agreement or the Project.

Luther Forest Cost Reimbursement Agreement 6

5.4 Anything in this Agreement to the contrary notwithstanding, Company shall not be

obligated to proceed with any Work until all of the following conditions have been satisfied:

(i) all Required Approvals for the Work have been received, are in

form and substance satisfactory to the Parties, have become final   
and non-appealable and commencement of the Work is permitted   
under the terms and conditions of such Required Approvals, and

(ii) all Company Reimbursable Costs invoiced to date have been paid

in full to Company.

6.0 Estimate Only; Customer Obligation to Pay Company Reimbursable Costs.

6.1 The current good faith estimate of the Company Reimbursable Costs, exclusive of

any applicable taxes, is One Million Thirty One Hundred Thousand Dollars ($1,031,000. (the “Work Cost Estimate”). The Work Cost Estimate is an estimate only and shall not limit Customer’s obligation to pay Company for all Company Reimbursable Costs actually incurred by Company or its Affiliates.

7.0 Payment

7.1 Customer shall pay or reimburse Company for all Company Reimbursable Costs.

The Company shall invoice Customer for an initial prepayment of Five Hundred Thousand dollars ($500,000.00) ("Initial Prepayment") and Customer shall pay the Initial Prepayment to Company within thirty (30) Days of the invoice due date. Company shall not be obligated to commence Work under this Agreement prior to receiving the Initial Prepayment.

7.2 Company may periodically invoice Customer for Company Reimbursable Costs

incurred. Each invoice will contain reasonable detail sufficient to show the   
invoiced Company Reimbursable Costs incurred by line item. Company is not   
required to issue periodic invoices to Customer and may elect, in its sole   
discretion, to continue performance hereunder after the depletion of the Initial   
Prepayment or any subsequent prepayment, as applicable, and invoice Customer   
at a later date. Except as otherwise expressly provided for in this Agreement, all   
invoices shall be due and payable thirty (30) Days from date of invoice. If any   
payment due under this Agreement is not received within thirty (30) Days after   
the applicable invoice due date, the Customer shall pay to the Company interest   
on the unpaid amount at an annual rate equal to two percent (2%) above the prime   
rate of interest from time to time published under “Money Rates” in The Wall   
Street Journal (or if at the time of determination thereof, such rate is not being   
published in The Wall Street Journal, such comparable rate from a federally   
insured bank in New York, New York as the Company may reasonably   
determine), the rate to be calculated daily from and including the due date until

Luther Forest Cost Reimbursement Agreement 7

payment is made in full. In addition to any other rights and remedies available to   
Company, if any payment due from Customer under this Agreement is not   
received within thirty (30) Days after the applicable invoice due date, Company   
may suspend any or all Work pending receipt of all amounts due from Customer;   
any such suspension shall be without recourse or liability to Company.

7.3 Each month during the term of this Agreement, the Company shall provide

Customer with a report (each, a “Monthly Report”) containing (i) unless invoiced,   
the Company’s current estimate of the Company Reimbursable Costs incurred in   
the prior calendar month, and (ii) the Company’s current forecast (20% to 40%   
variance) of the Company Reimbursable Costs expected to be incurred in the next   
calendar month, provided, however, that such Monthly Reports (and any

forecasted or estimated amounts reflected therein) shall not limit Customer’s obligation to pay Company for all Company Reimbursable Costs actually incurred by Company or its Affiliates.

7.4 If Customer claims exemption from sales tax, Customer agrees to provide

Company with an appropriate, current and valid tax exemption certificate, in   
form and substance satisfactory to National Grid, relieving National Grid from   
any obligation to collect sales taxes from Customer ("Sales Tax Exemption

Certificate"). During the term of this Agreement, Customer shall promptly   
provide National Grid with any modifications, revisions or updates to the Sales   
Tax Exemption Certificate or to Customer's exemption status. If Customer fails   
to provide an acceptable Sales Tax Exemption Certificate for a particular   
transaction, National Grid shall add the sales tax to the applicable invoice to be   
paid by Customer.

7.5 Company shall maintain reasonably detailed records to document the Company

Reimbursable Costs. So long as a request for access is made within six (6)   
months of completion of the Work, Customer and its chosen auditor shall, during   
normal business hours and upon reasonable advanced written notice of not less   
than ten (10) days, be provided with access to such records for the sole purpose of   
verification by Customer that the Company Reimbursable Costs have been   
incurred by Company.

7.6 Company’s invoices to Customer for all sums owed under this Agreement shall be

sent to the individual and address specified below, or to such other individual and   
address as Customer may designate, from time to time, by written notice to the   
Company :

Name: Mr. Todd Foster

NYSEG

Address: 18 Link Dr.

PO Box 5224

Luther Forest Cost Reimbursement Agreement 8

Binghamton NY 13902-5224

7.7 All payments made under this Agreement shall be made in immediately available

funds. Payments to the Company shall be made by wire transfer to:

Wire Payment: JP Morgan Chase

ABA# 021000021

Credit: National Grid USA Account#.77149642

8.0 Final Payment

8.1 Following completion of the Work, the Company shall perform an overall

reconciliation of the total of all Company Reimbursable Costs to the invoiced   
costs previously paid to Company by Customer under this Agreement (“Total   
Payments Made”). If the total of all Company Reimbursable Costs is greater than   
the Total Payments Made, the Company shall provide a final invoice to Customer   
for the balance due to the Company under this Agreement (the “Balance

Amount”). If the Total Payments Made is greater than the total of all Company   
Reimbursable Costs, Company shall reimburse the difference to Customer   
(“Reimbursement Amount”). The Reimbursement Amount or Balance Amount, as   
applicable, shall be due and payable upon final reconciliation but no later than   
sixty (60) Days after such reconciliation. Any portion of the Balance Amount or   
Reimbursement Amount, as applicable, remaining unpaid after that time shall be   
subject to interest as calculated pursuant to Section 7.2 of this Agreement.

9.0 Customer’s Responsibilities

9.1 If and to the extent applicable or under the control of the Customer, Customer

shall provide complete and accurate information regarding requirements for the Project and the Site(s), including, without limitation, constraints, space requirements, underground or hidden facilities and structures, and all applicable drawings and specifications.

9.2 Customer shall prepare, file for, and use commercially reasonable efforts to obtain

all Required Approvals necessary to perform its obligations under this

Agreement.

9.3 Customer shall reasonably cooperate with Company as required to facilitate

Company’s performance of the Work.

10.0 Meetings

10.1 Each Party’s Project Manager shall attend Project meetings at times and places

mutually agreed to by the Parties, which meetings shall be held at least monthly

by teleconference or in person as agreed to by the Project Managers.

Luther Forest Cost Reimbursement Agreement 9

11.0 Disclaimers

11.1 THE COMPANY IS NOT IN THE BUSINESS OF PERFORMING DESIGN,

ENGINEERING OR CONSTRUCTION SERVICES FOR PROFIT AND IS   
NOT RECEIVING ANY FEE OR PROFIT (AS CONTRASTED WITH COST   
REIMBURSEMENT) FOR ITS PERFORMANCE OF THE WORK   
HEREUNDER. THE EXCLUSIVE REMEDY GRANTED TO CUSTOMER   
FOR ANY ALLEGED FAILURE OF COMPANY TO MEET THE   
PERFORMANCE STANDARDS OR REQUIREMENTS CONTAINED IN   
THIS AGREEMENT IS AS SET FORTH IN SECTION 3.2. COMPANY   
MAKES NO WARRANTIES, REPRESENTATIONS, OR GUARANTEES IN   
CONNECTION WITH THIS AGREEMENT, ANY PROJECT, OR ANY WORK   
OR SERVICES PERFORMED IN CONNECTION THEREWITH, WHETHER   
WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, INCLUDING,   
WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF   
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE,   
ALL OF WHICH ARE HEREBY EXPRESSLY EXCLUDED AND   
DISCLAIMED. CUSTOMER ACKNOWLEDGES AND AGREES THAT ANY   
WARRANTIES PROVIDED BY ORIGINAL MANUFACTURERS,   
LICENSORS, OR PROVIDERS OF MATERIAL, EQUIPMENT, SERVICES   
OR OTHER ITEMS PROVIDED OR USED IN CONNECTION WITH THE   
WORK, INCLUDING ITEMS INCORPORATED IN THE WORK (“THIRD   
PARTY WARRANTIES”), ARE NOT TO BE CONSIDERED WARRANTIES   
OF THE COMPANY AND THE COMPANY MAKES NO   
REPRESENTATIONS, GUARANTEES, OR WARRANTIES AS TO THE   
APPLICABILITY OR ENFORCEABILITY OF ANY SUCH THIRD PARTY   
WARRANTIES.

11.2 Notwithstanding any other provision of this Agreement, this Article shall survive

the termination, cancellation or expiration of this Agreement.

Luther Forest Cost Reimbursement Agreement 10

12.0 Liability and Indemnification

12.1 To the fullest extent permitted by applicable law (including, without limitation,   
 the applicable provisions of any governing federal or state tariff), Customer shall   
 indemnify and hold harmless, and at Company’s option, defend Company, its   
 parents and Affiliates and their respective contractors, officers, directors, servants,   
 agents, representatives, and employees (each, individually, an “Indemnified

Party” and, collectively, the “Indemnified Parties”), from and against any and all   
liabilities, damages, losses, costs, expenses (including, without limitation, any and   
all reasonable attorneys' fees and disbursements), causes of action, suits, liens,   
claims, damages, penalties, obligations, demands or judgments of any nature,   
including, without limitation, for death, personal injury and property damage,   
economic damage, and claims brought by third parties for personal injury and/or   
property damage (collectively, “Damages”), incurred by any Indemnified Party to   
the extent caused by (i) any breach of this Agreement by Customer, its Affiliates,   
third-party contractors, or their respective officers, directors, servants, agents,   
representatives, or employees, or (ii) the negligence, unlawful act or omission, or   
intentional misconduct of Customer, its Affiliates, third-party contractors, or their   
respective officers, directors, servants, agents, representatives, and employees,   
arising out of or in connection with this Agreement, the Project, or any Work,   
except to the extent such Damages are directly caused by the gross negligence,   
intentional misconduct or unlawful act of the Indemnified Party or its contractors,   
officers, directors, servants, agents, representatives, or employees.

12.2 Customer shall defend, indemnify and save harmless Company, its parents and

Affiliates and their respective contractors, officers, directors, servants, agents, representatives, and employees, from and against any and all liabilities, losses, costs, counsel fees, expenses, damages, judgments, decrees and appeals resulting from any charge or encumbrance in the nature of a laborer’s, mechanic’s or materialman’s lien asserted by any of Customer’s subcontractors or suppliers in connection with the Work or the Project.

12.3 Customer shall also protect, indemnify and hold harmless the Company and its

Affiliates from and against the cost consequences of any tax liability imposed   
against or on Company and/or its Affiliates as the result of payments, and/or real   
or personal property transfers, made in connection with this Agreement, as well as   
any related interest and penalties, other than interest and penalties attributable to   
any delay directly caused by Company or the applicable Company Affiliate.

12.4 The Company’s total cumulative liability to Customer for all claims of any kind,

whether based upon contract, tort (including negligence and strict liability), or   
otherwise, for any loss, injury, or damage connected with, or resulting from, this   
Agreement, the Project or the Work, shall not exceed the aggregate amount of all   
payments made to Company by Customer as Company Reimbursable Costs under   
this Agreement.

Luther Forest Cost Reimbursement Agreement 11

12.5 Neither Party shall be liable to the other Party for consequential, indirect, special,

incidental, multiple, or punitive damages (including, without limitation, attorneys’ fees or litigation costs) in connection with or related to this Agreement, including, without limitation, damage claims based on causes of action for breach of contract, tort (including negligence), or any other theory of recovery, whether or not (i) such damages were reasonably foreseeable or (ii) the Parties were advised or aware that such damages might be incurred.

12.6 Neither Party shall be liable to the other Party for claims or damages for lost

profits, delays, loss of use, business interruption, or claims of customers, whether   
such claims are categorized as direct or consequential damages, or whatever the   
theory of recovery, and whether or not (i) such damages were reasonably

foreseeable or (ii) the Parties were advised or aware that such damages might be incurred.

12.7 Anything in this Agreement to the contrary notwithstanding, neither Party shall be

responsible for any failure or inability to perform hereunder to the extent such failure or inability is caused by the acts or omissions of the other Party (including any contractor of such Party or any person or entity for whom such Party is legally responsible) or of any third party (other than a subcontractor of the Party that is unable or failing to perform hereunder).

For the avoidance of doubt: neither Party, as applicable, shall have any   
responsibility or liability under this Agreement for any delay in performance or   
nonperformance to the extent such delay in performance or nonperformance is   
caused by or as a result of (a) the inability or failure of the other Party or its   
contractors to cooperate or to perform any tasks or responsibilities contemplated   
to be performed or undertaken by such other Party under this Agreement, (b) any   
unforeseen conditions or occurrences beyond the reasonable control of the Party   
(including, without limitation, conditions of or at the Site, delays in shipments of   
materials and equipment and the unavailability of materials), (c) the inability or   
failure of Customer and Company to reach agreement on any matter requiring   
their mutual agreement under the terms of this Agreement, or (d) any valid order   
or ruling by any governmental agency or authority having jurisdiction over the   
subject matter of this Agreement.

12.8 Anything in this Agreement to the contrary notwithstanding, if any Party’s

liability in connection with this Agreement is limited or capped pursuant to any applicable law, statute, rule or regulation, then the other Party hereto shall be entitled to elect an identical liability limitation and/or cap as if such law, statute, rule or regulation were applicable to such Party.

12.9 Notwithstanding any other provision of this Agreement, this Article shall survive

the termination, cancellation or expiration of this Agreement.

Luther Forest Cost Reimbursement Agreement 12

13.0 Employee Claims; Insurance

13.1 The Company elects to self-insure to maintain the insurance coverage amounts set

forth in Exhibit C of this Agreement.

13.2 Prior to commencing Work on the Project and during the term of the Agreement,

the Customer, at its own cost and expense, shall procure and maintain insurance in form and amounts set forth in Exhibit C of this Agreement, or Customer may self-insure to the extent authorized or licensed to do so under the applicable laws of the State of New York. Customer hereby elects to self-insure to maintain the insurance coverage amounts set forth in Exhibit C of this Agreement.

13.3 Except to the extent Customer self-insures in accordance with Section 13.2

hereof, the Customer shall have its insurer furnish to the Company certificates of insurance, on forms approved by the Insurance Commissioner of the State of New York, evidencing the insurance coverage required by this Article, such certificates to be provided prior to commencement of Work.

13.4 Each Party shall be separately responsible for insuring its own property and   
 operations.

14.0 Assignment and Subcontracting

14.1 Either Party may assign this Agreement, or any part thereof, to any of its

Affiliates provided such assignee Affiliate agrees in writing to be bound by the   
terms and conditions of this Agreement. Any assignment of this Agreement in   
violation of the foregoing shall be voidable at the option of the non-assigning   
Party. Each Party has the right to subcontract some or all of the work to be   
performed by such Party under the terms of this Agreement. Each Party may also   
use the services of its Affiliates in connection with its performance under this   
Agreement. Customer agrees that the costs and expenses of such Affiliates or   
contractors charged to or incurred by Company shall be paid by Customer as part   
of the Company Reimbursable Costs.

15.0 Independent Contractor; No Partnership; No Agency; No Utility Services

15.1 Company and Customer shall be independent contractors. This Agreement shall

not be interpreted or construed to create an association, joint venture, agency   
relationship, or partnership between the Parties or to impose any partnership   
obligation or partnership liability upon any Party. No Party shall have any right,   
power or authority to enter into any agreement or undertaking for, or act on behalf   
of, or be an agent or representative of, or to otherwise bind, the other Party. This   
Agreement is not an agreement to provide or take utility services of any kind,   
including, without limitation, interconnection or other electric transmission   
services.

Luther Forest Cost Reimbursement Agreement 13

16.0 Examination, Inspection and Witnessing

16.1 Subject to Customer’s and its representatives’ compliance with Company’s

security, safety, escort and other access requirements, the Customer and/or its   
representatives shall have the right to inspect and examine the Work, or witness   
any test with respect to the Work, from time to time, when and as mutually agreed   
by the Parties, at Customer’s sole cost and expense, and with reasonable prior   
notice to Company. Unless otherwise agreed between the Parties, such   
inspections, examinations and tests shall be scheduled during normal business   
hours.

17.0 Safety

17.1 Each Party shall be solely responsible for the safety and supervision of its own

employees, representatives and contractors involved with the Work or any other   
activities contemplated by this Agreement. In connection with the activities   
contemplated by this Agreement, each Party shall, and shall require its   
representatives, contractors, and employees to, comply with all applicable   
Federal, state and local health and safety requirements, rules, regulations, laws   
and ordinances, including without limitation, the safety regulations adopted under   
the Occupational Safety and Health Act of 1970 (“OSHA”), as amended from   
time to time. While on the property (including, without limitation, easements or   
rights of way) of, or accessing the facilities of, the other Party, each Party’s   
employees and/or contractors and agents shall at all times abide by the other   
Party’s safety standards and policies, switching and tagging rules, and escort and   
other applicable access requirements. The Party owning or controlling the   
property or facilities shall have the authority to suspend the other Party’s access,   
work or operations in and around such property or facilities if, in its sole   
judgment, at any time hazardous conditions arise or any unsafe practices are being   
followed by the other Party’s employees, agents, representatives or contractors.

18.0 Approvals, Permits and Easements

18.1 The actual cost of obtaining all Required Approvals obtained by or on behalf of

the Company shall be paid for by Customer as part of Company Reimbursable   
Costs.

19.0 Environmental Protection; Hazardous Substances or Conditions

19.1 The Company shall in no event be liable to Customer, its Affiliates or contractors,   
 their respective officers, directors, employees, agents, servants, or representatives,   
 or any third party with respect to, or in connection with, the presence of any   
 Hazardous Substances which may be present at or on any Customer or third party   
 owned, occupied, used, or operated property or facility (including, without

limitation, easements, rights-of-way, or other third-party property) or which the   
Company, its Affiliates or contractors, their respective officers, directors,

Luther Forest Cost Reimbursement Agreement 14

employees, agents, servants, or representatives may discover, release, or generate   
at or on such properties or facilities through no negligent or unlawful act of the   
Company, and Company hereby disclaims any and all such liability to the fullest   
extent allowed by applicable law. Customer agrees to hold harmless, defend, and   
indemnify the Company, its Affiliates and contractors, and their respective   
directors, officers, agents, servants, employees and representatives from and   
against any and all claims and/or liability in connection with, relating to, or   
arising out of (i) the presence, discovery, release, threat of release or generation of   
Hazardous Substances, or (ii) the breach of any Federal, state, or local laws, rules,   
regulations, codes, or ordinances relating to the environment, including, without   
limitation, the Comprehensive Environmental Response, Compensation and   
Liability Act, as amended, 42 U.S.C. §§ 9601 et seq., the Resource Conservation   
and Recovery Act, as amended, 42 U.S.C. §§ 6901 et seq., except to the extent   
such presence, discovery, release, threat of release, generation or breach is or are   
directly and solely caused by the negligent or unlawful act of the Company or of   
any person or entity for whom the Company is legally responsible. The   
obligations under this Section shall not be limited in any way by any limitation on   
Customer’s insurance or by any limitation of liability or disclaimer provisions   
contained in this Agreement. The provisions of this Section shall survive the   
expiration, cancellation or earlier termination of this Agreement.

19.2 Customer shall promptly inform the Company, in writing, of any Hazardous

Substances, or unsafe, dangerous, or potentially dangerous, conditions or   
structures, whether above-ground or underground, that are present on, under,   
over, or in Customer- owned, occupied, used, managed or operated facilities or   
property (including, without limitation, easements, rights-of-way, or other third-  
party property) to be used or accessed in connection with the Work or this   
Agreement. Prior to Company’s commencement of the Work, Customer shall be   
obligated to use its best efforts (including, without limitation, the use of

DIGSAFE or other similar services) to adequately investigate the presence and   
nature of any such Hazardous Substances, or unsafe, dangerous, or potentially   
dangerous, conditions or structures, and to promptly, fully, and in writing,   
communicate the results thereof to the Company. Customer’s provision to the   
Company of the information contemplated in this Section shall in no event give   
rise to any liability or obligation on the part of the Company, nor shall Customer’s   
obligations under this Agreement, or under law, be decreased or diminished   
thereby.

Luther Forest Cost Reimbursement Agreement 15

20.0 Suspension of Work

20.1 Subject to Section 20.2, below, Customer may interrupt, suspend, or delay the

Work by providing written notice to the Company specifying the nature and expected duration of the interruption, suspension, or delay. Company will use commercially reasonable efforts to suspend performance of the Company Work as requested by Customer. Customer shall be responsible to pay Company (as part of Company Reimbursable Costs) for all costs incurred by Company that arise as a result of such interruption, suspension or delay.

20.2 As a precondition to the Company resuming the Work following a suspension

under Section 20.1, the Projected Milestone Schedule and the Work Cost Estimate shall be revised as mutually agreed by the Parties to reflect the interruption, suspension, or delay. Adjustments to the Company Reimbursable Costs shall include any costs or expenses the Company incurs as a result of the interruption, suspension, or delay.

21.0 Right to Terminate Agreement

21.1 If either Party (the “Breaching Party”) (a) fails to pay any amount when due

under the terms of this Agreement or fails to comply with or perform, in any   
material respect, any of the other terms or conditions of this Agreement; (b) sells   
or transfers all or substantially all of its assets; (c) enters into any voluntary or   
involuntary bankruptcy proceeding or receivership; or (d) makes a general

assignment for the benefit of its creditors, then the other Party (the “Non-

Breaching Party”) shall have the right, without prejudice to any other right or   
remedy and after giving five (5) Days’ written prior notice to the Breaching Party   
and a reasonable opportunity for cure (not to exceed thirty (30) Days in the case   
of a failure to pay amounts when due), to terminate this Agreement, in whole or in   
part, and thereupon each Party shall discontinue its performance hereunder to the   
extent feasible and make every reasonable effort to procure cancellation of   
existing Work- and/or Project- related commitments, orders and contracts upon   
terms that are reasonably expected to minimize all associated costs. However,   
nothing herein will restrict Company’s ability to complete aspects of the Work   
that Company must reasonably complete in order to return its facilities and the   
Sites to a configuration in compliance with Good Utility Practice and all   
Applicable Requirements. The Non-Breaching Party shall also have the right to   
pursue any and all rights it may have against the Breaching Party under applicable   
law, subject to other applicable terms and conditions of this Agreement   
(including, without limitation, any applicable limitations on liability contained   
herein).

21.2 In the event of any early termination or cancellation of the Work as contemplated

in this Agreement, Customer shall pay Company for:

Luther Forest Cost Reimbursement Agreement 16

(i) all Company Reimbursable Costs for Work performed on or before the

effective date of termination or cancellation;

(ii) all other Company Reimbursable Costs incurred by Company in   
connection with the Work prior to the effective date of termination or   
cancellation, including, without limitation, for materials, equipment, tools,   
construction equipment and machinery, engineering and other items,   
materials, assets or services which cannot reasonably be avoided, mitigated or   
cancelled;

(iii) all Company Reimbursable Costs incurred to unwind Work that was   
performed prior to the effective date of termination or cancellation to the   
extent reasonably necessary to return Company’s facilities to a configuration   
in compliance with Good Utility Practice and all Applicable Requirements;

(iv) all Company Reimbursable Costs arising from cancellation costs relating to orders or contracts entered into in connection with the Work prior to the effective date of termination or cancellation; and

(v) all Company Reimbursable Costs arising from demobilization expenses incurred by Company which cannot be reasonably avoided or mitigated.

22.0 [Reserved]

23.0 Force Majeure

23.1 A “Force Majeure Event” shall include fire, flood, windstorm, adverse weather

conditions, emergencies, explosion, terrorism, riot, war, sabotage, acts of God,   
strikes or labor slow-downs, court injunction or order, federal and/or state law or   
regulation, delays by governmental authorities in approving regulatory, license   
and permit requests necessary in connection with the Work or Project, or order by   
any federal or state regulatory agency, or other causes, conditions or   
circumstances beyond the affected Party’s reasonable control. Without limiting   
the foregoing, a “Force Majeure Event” shall also include unavailability of

personnel, equipment, supplies, or other resources (“Resources”) due to diversion of such Resources for other utility-related duties in connection with an emergency or other similar contingency, including, without limitation, storms or other adverse weather conditions.

If a Force Majeure Event should occur and impair the ability of either or both   
Parties to perform its, or their respective, obligations hereunder, then, to the extent   
affected by such Force Majeure Event, the performance of this Agreement, with   
the exception of payment obligations, shall be suspended for the duration of such   
Force Majeure Event. At the conclusion of a Force Majeure Event, the price and   
time for performance under this Agreement shall be adjusted as reasonably   
necessary to overcome the effect of the delay occasioned by such Force Majeure   
Event. The foregoing notwithstanding and with the exception of payment

Luther Forest Cost Reimbursement Agreement 17

obligations, if, as the direct or indirect result of any Force Majeure Event, the   
Parties’ continued performance hereunder becomes irreparably impaired or   
prevented, the Parties may mutually agree to terminate this Agreement, in whole   
or in part, with no further obligation or liability; provided, however, that,   
notwithstanding any such termination, Customer shall pay the Company all of the   
Company’s Company Reimbursable Costs in accordance with Section 21.2 of this   
Agreement.

23.2 Within thirty (30) Days after the termination of any delay occasioned by a Force

Majeure Event, the affected Party shall give written notice to the other Party specifying the estimated impact of the delay.

23.3 For the avoidance of doubt: to the extent any Party has a payment obligation

pursuant to the terms of this Agreement, such payment obligation shall not be   
subject to or conditioned upon such Party receiving funding or reimbursement   
from any third party (and any failure to secure such funding or reimbursement   
shall not constitute a Force Majeure Event), nor shall any such obligation be   
conditioned upon the other Party executing any certificates or other instruments   
not expressly and specifically required by the terms of this Agreement.

24.0 [Reserved]

25.0 Proprietary and Confidential Information

25.1 Each Party acknowledges that, in the course of the performance of this

Agreement, it may have access to Proprietary Information of the other Party.

25.2 General Restrictions. Upon receiving Proprietary Information, the Receiving

Party) and its Representative shall keep in strict confidence and not disclose to   
any person (with the exception of the Representatives of the Receiving Party, to   
the extent each such Representative has a need to know in connection herewith)   
any of the Disclosing Party’s Proprietary Information except as otherwise   
provided by the terms and conditions of this Agreement. The Receiving Party and   
its Representatives shall not use such Proprietary Information except for the   
purposes identified herein without the prior written approval of the Disclosing   
Party. The Receiving Party shall be solely liable for any breach of this Section to   
the extent caused by its Representatives. Customer agrees that any Proprietary   
Information will be used solely for the Project and will not be used, either directly   
or indirectly, for the Customer's financial gain and/or commercial advantage or in   
violation of any applicable laws, rules or regulations.

25.3 Exceptions. Subject to Section 25.4 hereof, the Receiving Party shall not be

precluded from, nor liable for, disclosure or use of Proprietary Information that:

25.3.1 is in or enters the public domain, other than by a breach of this   
 Section; or

Luther Forest Cost Reimbursement Agreement 18

25.3.2 is known to the Receiving Party or its Representatives at the time

of first disclosure hereunder, or thereafter becomes known to the Receiving Party or its Representatives subsequent to such disclosure without similar restrictions from a source other than the Disclosing Party, as evidenced by written records; or

25.3.3 is developed by the Receiving Party or its Representatives

independently of any disclosure under this Agreement, as evidenced by written records; or

25.3.4 is disclosed more than three (3) years after first receipt of the

disclosed Proprietary Information, or three (3) years after the

termination or expiration of this Agreement, whichever occurs later (the “Non-Disclosure Term”); or

25.3.5 is disclosed following receipt of the Disclosing Party’s written

consent to the disclosure of such Proprietary Information; or

25.3.6 is necessary to be disclosed, in the reasonable belief of the

Receiving Party or its Representatives, for public safety reasons, provided, that, Receiving Party has attempted to provide as much advance notice of the disclosure to the Disclosing Party as is practicable under the circumstances.

Anything in this Article or the Agreement to the contrary notwithstanding, the   
Receiving Party or its Representative(s) may disclose Proprietary Information of   
the other Party to the extent the Receiving Party or its Representative(s) is   
required to do so by law, by a court, or by other governmental or regulatory   
authorities; provided, however, that, if permitted to do so by applicable law, the   
Receiving Party shall give the Disclosing Party written notice of any such   
required disclosure prior to such disclosure being made so that the Disclosing   
Party may seek a protective order with respect to such Proprietary Information.   
Receiving Party will reasonably cooperate with the Disclosing Party’s efforts to   
obtain such protective order.

25.4 Each Party acknowledges that information and/or data disclosed under this

Agreement may include “critical energy infrastructure information” under

applicable FERC rules and policies (“CEII”). Receiving Party shall, and shall   
cause its Representatives to, strictly comply with any and all laws, rules and   
regulations (including, without limitation, FERC regulations, rules, orders and   
policies) applicable to any such CEII disclosed by or on behalf of Disclosing   
Party or that relates to any of Disclosing Party’s or Disclosing Party’s Affiliates’   
facilities.

Luther Forest Cost Reimbursement Agreement 19

Neither the Receiving Party nor its Representatives shall divulge any such CEII to   
any person or entity, directly or indirectly, unless permitted to do so by law and   
unless the Receiving Party has first obtained, in each case, the express specific   
written consent of the Disclosing Party and any affected Affiliate of the   
Disclosing Party. In any event, to the extent that the Receiving Party or any of its   
Representatives seeks or is ordered to submit any such CEII to FERC, a state   
regulatory agency, court or other governmental body, the Receiving Party shall, in   
addition to obtaining the Disclosing Party’s and its Affiliate’s prior written   
consent (as applicable), seek a protective order or other procedural protections to   
ensure that such information is accorded CEII status and is otherwise treated as   
confidential.

In the case of any Proprietary Information that is CEII, Receiving Party’s   
obligations and duties under this Article shall survive until (i) the expiration of the   
Non-Disclosure Term, or (ii) the date on which such CEII is no longer required to   
be kept confidential under applicable law, whichever is later. With respect to   
CEII, in the event of any conflict or inconsistency between this Section and any   
other term or provision of this Agreement, this Section shall govern in connection   
with such CEII.

25.5 Notwithstanding any provision of this Agreement to the contrary, all assets,

equipment and facilities procured or constructed by or on behalf of Company, and all plans, designs, specifications, drawings and other materials and documents created or prepared by or for Company, in connection with the Work, and all title, copyright, intellectual property and other rights therein, shall be and remain the sole property of Company.

25.6 This Article shall survive any termination, expiration or cancellation of this

Agreement.

26.0 Governing Law; Effect of Applicable Requirements

26.1 This Agreement is made and shall be interpreted, construed, governed, and

enforced in accordance with the laws of the State of New York, without reference to such State’s conflict-of-laws doctrine. The Company and Customer agree to submit to the personal jurisdiction of the courts in the State of New York, or the Federal District courts in the State of New York, as permitted by law, with respect to any matter or dispute arising out of this Agreement.

26.2 If and to the extent a Party is required or prevented or limited in taking any action

or performance with respect to this Agreement by any Applicable Requirement(s),

such Party shall not be deemed to be in breach of this Agreement as a result of

such compliance with the Applicable Requirement(s).

Luther Forest Cost Reimbursement Agreement 20

27.0 Miscellaneous

27.1 Project Managers. Promptly following the Effective Date, each Party shall

designate a Project Manager and shall provide the other Party with a written   
notice containing the name and contact information of such Project Manager.   
Whenever either Party is entitled to approve a matter, the Project Manager for the   
Party responsible for the matter shall notify the Project Manager of the other Party   
of the nature of such matter. The Project Managers shall discuss such matter, and   
each Project Manager shall confer on such matter on behalf of his/her Party. The   
foregoing notwithstanding, in no event shall any Project Manager be authorized to   
amend or modify the provisions of this Agreement. Each Party may change its   
Project Manager, from time to time, by written notice to the other Party.

27.2 Dispute Resolution. Any dispute arising under this Agreement shall be the

subject of good-faith negotiations between the Parties. Each Party shall designate   
one or more representatives with the authority to negotiate the matter in dispute   
for the purpose of participating in such negotiations. Unless a Party identifies   
exigent circumstances reasonably requiring expedited resolution of the dispute by   
a court or agency with jurisdiction over the dispute, any dispute that is not   
resolved through good-faith negotiations after a negotiation period of not less than   
thirty (30) days may be submitted by either Party for resolution to a court or to an   
agency with jurisdiction over the dispute. Notwithstanding the foregoing, any   
dispute arising under this Agreement may be submitted to non-binding arbitration   
or any other form of alternative dispute resolution upon the agreement of both   
Parties to participate in such an alternative dispute resolution process.

27.3 Compliance with Law. Each Party shall comply, at all times, with all Applicable

Requirements in connection with this Agreement and performance hereunder. Such compliance shall include, among other things, compliance with all applicable wage and hour laws and regulations and all other laws and regulations dealing with or relating to the employment of persons, and the payment of contributions, premiums, and taxes required by such laws and regulations. For the avoidance of doubt: neither Party shall be required to undertake or complete any action or performance under this Agreement that is inconsistent with such Party’s standard safety practices, its material and equipment specifications, its design criteria and construction procedures, its labor agreements, Good Utility Practice and/or any Applicable Requirement(s).

Luther Forest Cost Reimbursement Agreement 21

27.4 Form and Address. All notices, invoices and other communications from either

Party to the other hereunder shall be in writing and shall be deemed received (i)   
upon actual receipt when personally delivered, (ii) upon acknowledgment of   
receipt if sent by facsimile, (iii) upon the expiration of the third (3rd) business Day   
after being deposited in the United States mails, postage prepaid, certified or   
registered mail, or (iv) upon the expiration of one (1) business Day after being   
deposited during the regular business hours for next-day delivery and prepaid for   
overnight delivery with a national overnight courier, addressed to the other Party.   
Each Party may change its address by giving the other Party notice thereof in   
conformity with this Section. Any payments made under this Agreement, if made   
by mail, shall be deemed to have been made on the date of receipt thereof.

27.5 Exercise of Right. No failure or delay on the part of either Party in exercising

any right, power, or privilege hereunder, and no course of dealing between the Parties, shall operate as a waiver thereof; nor shall any single or partial exercise of any right, power, or privilege hereunder preclude any other or further exercise thereof or the exercise of any other right, power, or privilege.

27.6 Headings. The descriptive headings of the several Articles, sections, and

paragraphs of this Agreement are inserted for convenience only and do not constitute a part of this Agreement. Such headings shall not in any way define or affect the meaning, construction, or scope of any of the provisions hereof.

27.7 Incorporation of Schedules and Exhibits. The schedules, attachments and

exhibits referenced in and attached to this Agreement shall be deemed an integral   
part hereof to the same extent as if written in whole herein. In the event that any   
inconsistency exists between the provisions of this Agreement and any schedules,   
attachments or exhibits attached hereto, the provisions of this Agreement shall   
supersede the provisions of any such schedules, attachments or exhibits.

27.8 Prior Agreements; Modifications. This Agreement and the schedules,

attachments and exhibits attached hereto constitute the entire agreement between   
the Parties with respect to the subject matter hereof, and supersede all previous   
understandings, commitments, or representations concerning such subject matter.   
Each Party acknowledges that the other Party has not made any representations   
other than those that are expressly contained herein. This Agreement may not be   
amended or modified in any way, and none of its provisions may be waived,   
except by a writing signed by an authorized representative of the Party against   
whom the amendment, modification, or waiver is sought to be enforced. The   
Project Managers shall not be authorized representatives within the meaning of   
this Section.

Luther Forest Cost Reimbursement Agreement 22

27.9 Severability. Whenever possible, each provision of this Agreement shall be

interpreted in such manner as to be effective and valid under applicable law, but if any provision hereof shall be prohibited by, or determined to be invalid under, applicable law, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.

27.10 Nouns and Pronouns. Whenever the context may require, any pronouns used in

this Agreement shall include the corresponding masculine, feminine, or neuter   
forms, and the singular forms of nouns and pronouns shall include the plural, and   
vice versa.

27.11 No Third Party Beneficiaries. Nothing in this Agreement is intended to confer

on any person, other than the Parties, any rights or remedies under or by reason of this Agreement.

27.12 Validity; Required Regulatory Approvals.

(a) Each Party hereby represents that the provisions of this Agreement

constitute valid and legally binding obligations of such Party and are enforceable in accordance with their terms.

(b) Subject to Section 23.3 of this Agreement, the obligations of each Party   
under this Agreement are expressly contingent upon (i) each Party receiving all   
licenses, permits, permissions, certificates, approvals, authorizations, consents,   
franchises and releases from any local, state, or federal regulatory agency or other   
governmental agency or authority (which may include, without limitation and as   
applicable, the NYISO and the NYPSC) or any other third party that may be   
required for such Party in connection with the performance of such Party’s   
obligations under or in connection with this Agreement (the “Required

Approvals”), (ii) each Required Approval being granted without the imposition of   
any modification or condition of the terms of this Agreement or the subject   
transactions, unless such modification(s) or condition(s) are agreed to by both   
Parties in their respective sole discretion, and (iii) all applicable appeal periods   
with respect to the Required Approvals having expired without any appeal having   
been made or, if such an appeal has been made, a full, final and non-appealable   
determination having been made regarding same by a court or other   
administrative body of competent jurisdiction, which determination disposes of or   
otherwise resolves such appeal (or appeals) to the satisfaction of both Parties in   
their respective sole discretion.

Luther Forest Cost Reimbursement Agreement 23

(c) Subject to Section 23.3 of this Agreement, if any application or request is

made in connection with seeking any Required Approval and is denied, or is   
granted in a form, or subject to conditions, that either Party rejects, in its sole   
discretion, as unacceptable, this Agreement shall terminate as of the date that a   
Party notifies the other Party of such denial or rejection, in which event the   
obligations of the Parties under this Agreement shall cease as of such date and this   
Agreement shall terminate, subject to Customer’s obligation to pay Company in   
accordance with the terms of this Agreement (including, without limitation,

Section 21.2 hereof) for all Company Reimbursable Costs. All of the Company’s actual costs in connection with seeking Required Approvals shall be included within the meaning of the term Company Reimbursable Costs and shall be paid for by Customer.

27.13 Notices All formal notices, demands, or communications under this Agreement

shall be submitted in writing either by hand, registered or certified mail, or recognized overnight mail carrier to:

To Customer: Mr. Tim Lynch   
 Energy Services

NYSEG

18 Link Dr.

Binghamton NY 13902 (607) 762-4321

To Company: Mr. William Malee

Director, Transmission Commercial Niagara Mohawk Power Corporation d/b/a National Grid

40 Sylvan Road

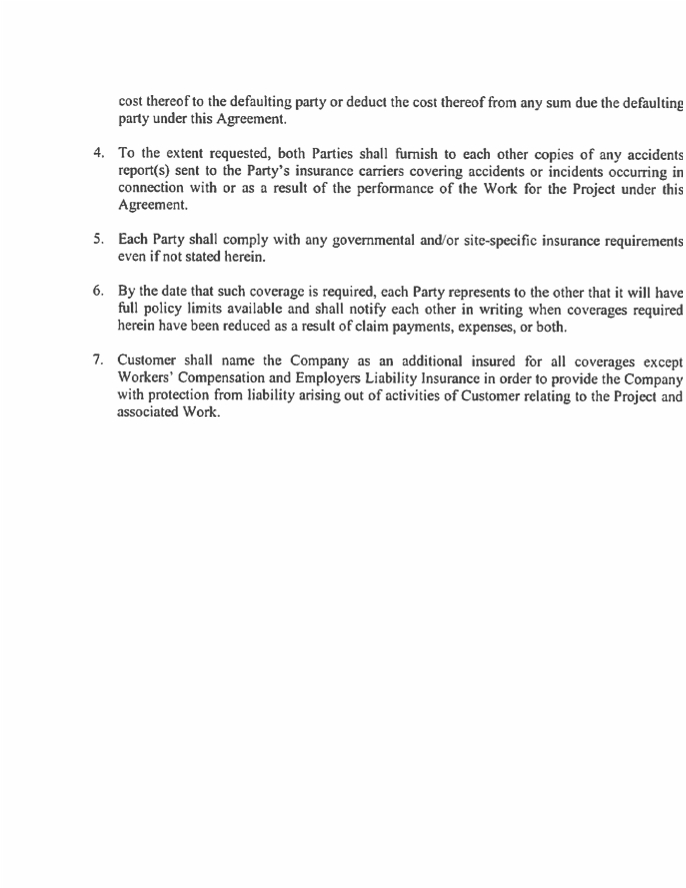
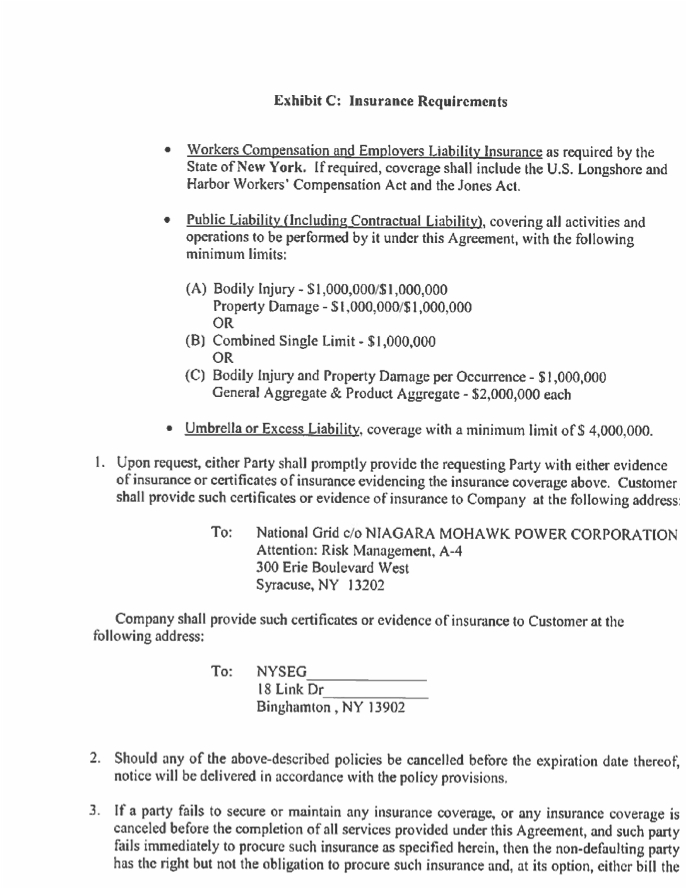
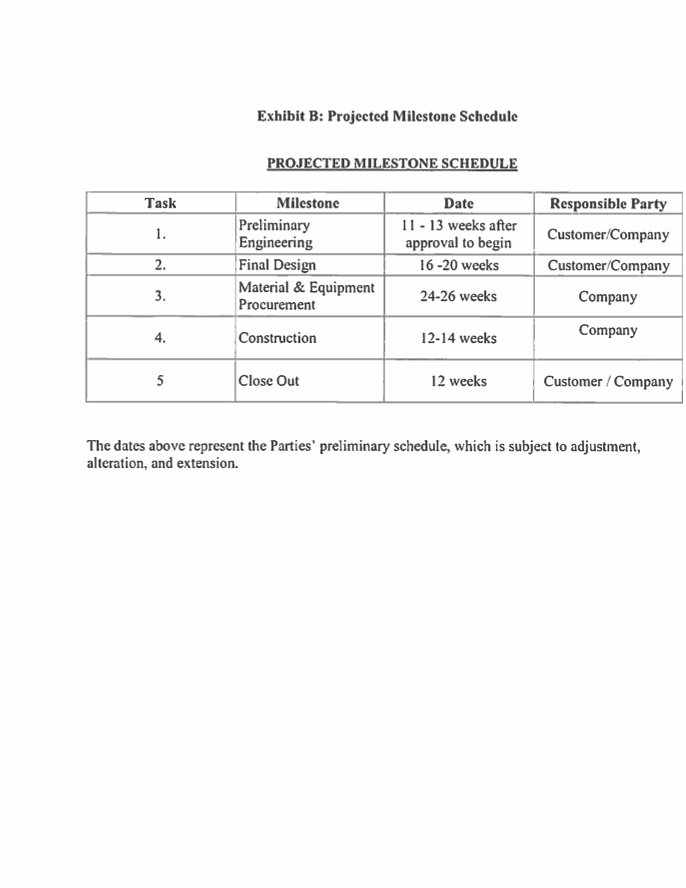
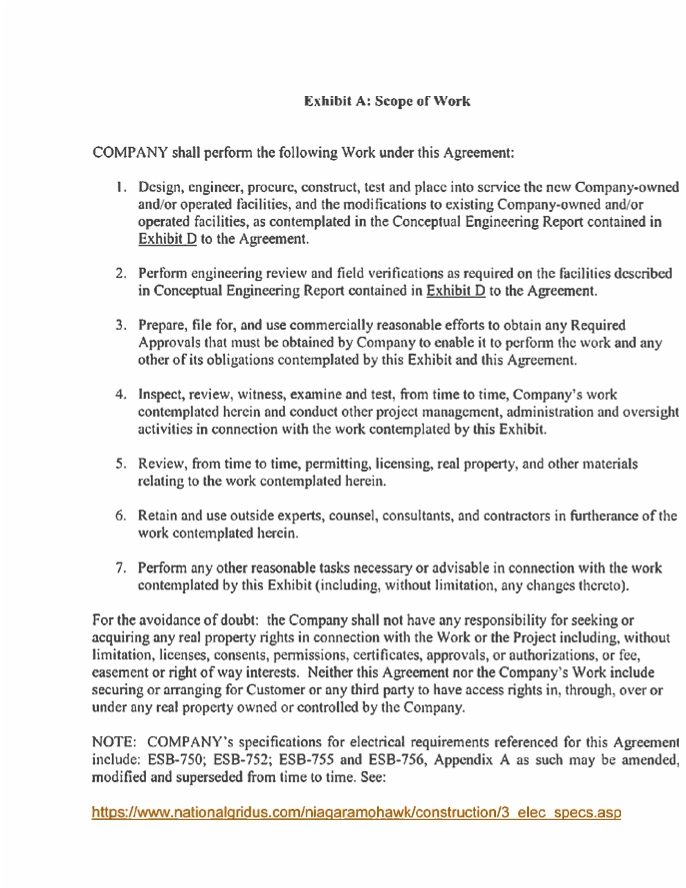
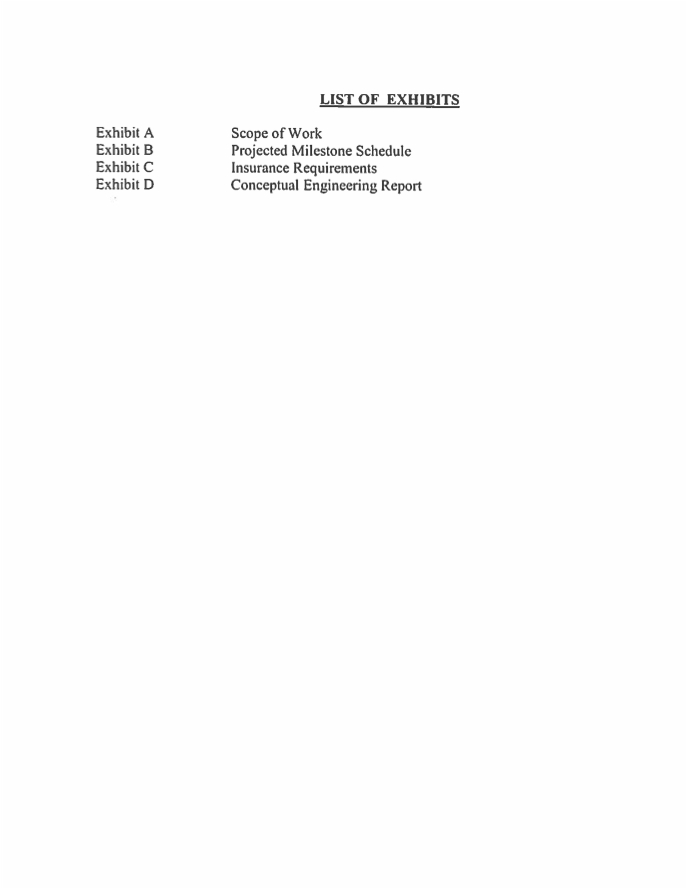
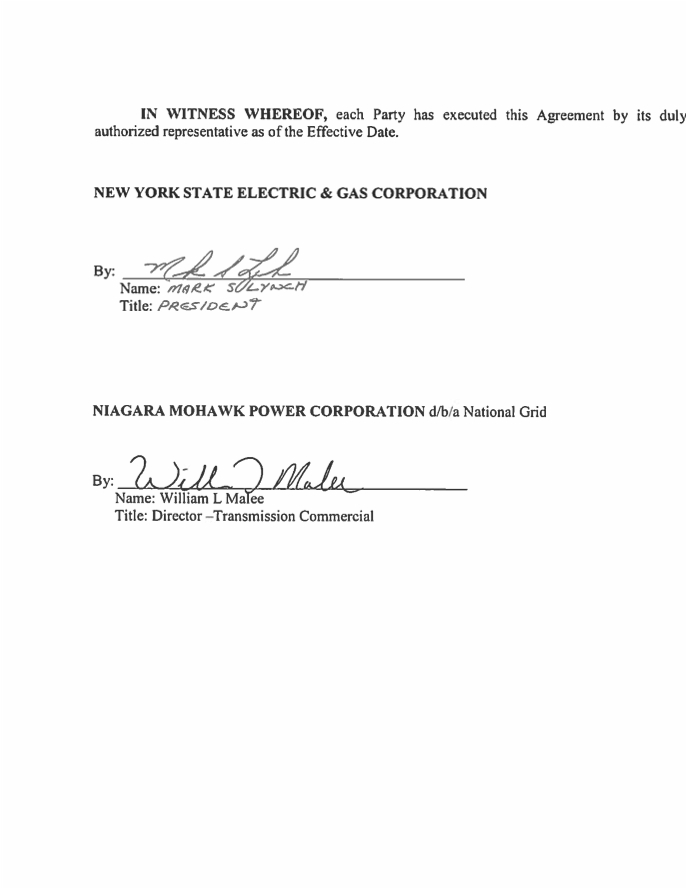
Waltham, MA 02451 (781) 907-2422

27.14 Counterparts. This Agreement may be executed in multiple counterparts, each   
 of which shall be considered an original. The exchange of copies of this   
 Agreement and of signature pages by facsimile or other electronic transmission   
 (including, without limitation, by e-mailed PDF) shall constitute effective   
 execution and delivery of this Agreement as to the Parties and may be used in lieu   
 of the original Agreement for all purposes. Signatures of the Parties transmitted   
 by facsimile or other electronic means (including, without limitation, by e-mailed   
 PDF) shall be deemed to be their original signatures for all purposes.

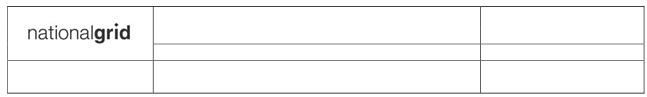
[Signatures are on following page.]

Luther Forest Cost Reimbursement Agreement

24



Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112



Conc. Eng Report For:

ENGINEERING DOCUMENT

Report: Project Management

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Doc. # RE.09.00.100   
 Page 1 of 2

Version 2.1 - 11/29/10

Version 1.0- 06/24/11

INTRODUCTION

This report describes the conceptual engineering for substations. It includes approval, scope of work,   
and costs for various conceptual engineering alternatives to the substations. Single line diagrams shall   
be included.

PURPOSE

The purpose of this report is to define the conceptual engineering for substations.

ACCOUNTABILITY

This report applies to all National Grid personnel involved with the conceptual engineering for substations.

COORDINATION

Coordination shall occur among Substation Engineering and Design, Project Management, Protection, Underground, Distribution Line Services, Transmission Line Engineering, Substation Operation and Maintenance Services, and Meter personnel.

REFERENCES

Project Management Playbook

PR.02.00.011 - Conceptual Engineering Checklist

DEFINITIONS

Not Applicable

TRAINING

Project Management Playbook Training

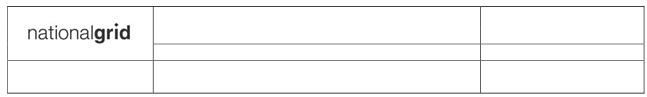
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



Conc. Eng Report For:

ENGINEERING DOCUMENT

Report: Project Management

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Doc. # RE.09.00.100   
 Page 2 of 2

Version 2.1 - 11/29/10

Version 1.0- 06/24/11

REVISION HISTORY

Version Date Description of Revision

1.0 04/14/08 First version of new document based on past practices and comments from Challenge

Meetings.

1.1 09/07/08 Approval changed to Manager, Substation Engineering.

Added additional rows for Funding, Work Order, and Company Number.

2.0 06/24/10 Converted to new format.

Removed Document Number, “Report: Project Management”, version and date revised of   
RE.09.00.100, and “Conc. Eng Report For:” in header of document starting on the 4thpage.

Table of Contents relocated to after the Conceptual Engineering Report cover page. Added “($K) +/- 25%” in Cost Column of Summary table.

Added Note regarding alternatives and their appropriate sections.

Added Notes 1 and 2 to Section 12.0 - Schedule.

Defined Closeout as 12 week duration in Section 12.0 - Schedule.

2.1 11/29/10 Summary Table - Added “(-25% to +50%)” in Cost Column

Section 1.11 - Revised the study grade cost estimate to be “-25% to +50%.”

Section 1.11 - Added “This cost estimate was created using …………(mention PET or SE, as applicable).”

Section 1.11 - Replaced “<Replace this text with the PET “Alternative Summary Short

Report” here>” with “<Replace this text with the PET “Alternative Summary Short Report” here or include the SE screen shots as an attachment >”

Section 1.12 - Revised “includes” to “include” in NOTE.

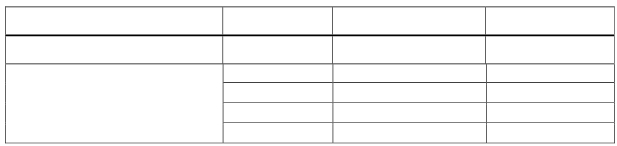
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 1 of 1

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

Conceptual Engineering Report   
 For

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Funding No.B10773,Work Order No.9000108448Company No:36 - Niagara Mohawk Power Corp. Funding No.#,Work Order No.#Company No:

Funding No.#,Work Order No.#Company No:   
Funding No.#,Work Order No.#Company No:

Prepared By: Graham Ehret

Version: 1.0 Date: 06/24/11

Requested Date: 08/05/11

Requested by: Mark Forchilli

Request Documentation: EDIS e-mail

Substation Engineering Suzan Martuscello 8/22/11

Manager Approval Sue Martuscello Date

Protection Engineering Mark Stqnbro 8/15/11

Manager Approval Mark Stanbro Date

Summary Alternative # Cost (-25% to +50%) Project Duration

Recommended Alternative #2 $1031K 60wks

#1 $992K 59wks

Other Alternatives

#3 $1142K 62wks

#4 $1783.5K 90wks

# $K

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 2 of 2

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

DOCUMENT CONTENTS

Table of Contents

1.0 ALTERNATIVE 1 3

2.0 ALTERNATIVE 2 (ELECTRICAL SERVICE BULLITEN - ESB) 15

3.0 ALTERNATIVE 3 (RITZ PTS AND CIRCUIT BREAKERS CTS) 21

4.0 ALTERNATIVE 4 (CIRCUIT BREAKERS AND REVENUE METERING) 27

5.0 REVISION HISTORY OF PROJECT DOCUMENT 33

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 3 of 3

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

INTRODUCTION

This document describes the scope of work and cost for National Grid (NG) to support New York State Energy and Gas (NYSEG) with the connection of their new 115kV - 34.5kV station to the existing two(2) 115kV busses at the National Grid Luther Forest station. The new NYSEG station site is adjacent and to the south of the existing Luther Forest station. The existing fence will remain and serve as a common station fence between the properties. The fence will continue to be owned and maintained by National Grid. A one-line diagram is provided in section 13.

PROBLEM STATEMENT

NYSEG is planning to build a new 115kV - 34.5kV station on the adjacent property south of the existing NG Luther Forest station. The new NYSEG station will be connected to the existing Luther Forest station by extending the existing 115kV busses from sets of existing NG 115kV disconnect switches to the NYSEG station (Refer to the NYSEG one-line in Section 1.13). National Grid shall work with NYSEG to ensure a safe and reliable connection is created that conforms to both utilities standards for safe operation and maintenance.

1.0 ALTERNATIVE 1

This is to support the construction of a new NYSEG station adjacent to the existing Luther Forest station and extending the existing “77G” and “99G” busses to serve the new station. The following is required; new revenue metering for each bus connection, physical demarcation points for maintenance purposes, modification of the existing bus protection packages to incorporate the bus extension to serve NYSEG, and shared drawings between the two(2) utility companies. The revenue metering location will be located within the existing Luther Forest station. The physical demarcation for maintenance purposes will be at the newly installed NYSEG switch location (This switch will be installed in the NYSEG yard just south of the existing Luther Forest fence line at the south side of the station). National Grid will be the primary owner of the shared drawings and will work with NYSEG to appoint a contact person from each company to maintain these drawings.

SCOPE OF WORK for Alternative 1

1.1 Assumptions and Exceptions

The revenue metering location will be located within the existing Luther Forest station   
(Refer to Section 1.13 “National Grid / NYSEG Station - 2008 Interconnection Plan”).

The physical point of demarcation will be the newly installed 115kV switches, just south of the existing Luther Forest station fence line (Refer to Section 1.13 “National Grid / NYSEG Station - 2008 Interconnection Plan”).

NYSEG can construct their fence to connect into the existing Luther Forest fence line on the south side of the property.

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 4 of 4

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

The NYSEG ground system is to be installed and connected to the existing Luther   
Forest station ground system, but NYSEG ground system will have to be tested   
separately and before the connection is made to the existing Luther Forest ground   
grid.

The shared drawings and how to issue/update/maintain should be determined during Step 1 of the National Grid process.

The outages can be taken in a timely manner between the two(2) utility companies to   
allow for construction and also the testing and commissioning of the new equipment.

There will be a minimal amount of soil removal and therefore the soil spoil pile can be located within the existing Luther Forest perimeter fence line.

1.2 Site Work

The point of property separation will be the existing Luther Forest southern fence-line. This fence will be owned and maintained by National Grid (Refer to section 1.13 “Luther Forest Station - Existing Physical layout”).

There will be two(2) new rigid conduits installed to create secondary cable paths from the existing “A” trench system to each of the new revenue metering locations.

There will be certain sections of the Luther Forest station that have to be regarded once the in-ground work has been completed.

1.3 Civil/Structural Work

New steel structures will be installed for the new bus supports.

New pier type foundations will be installed for the new bus supports.

New steel structures will be installed as support stands for the new revenue metering equipment.

New pier type foundations will be installed to support the new revenue metering equipment.

1.4 Primary Electrical Work

There are to be six(6) new combo CT/PT revenue metering units installed. Each one will have its own stand and foundation. These units will be similar to the existing six(6) revenue metering units that are presently being used for the Global Foundry 115kV transmission lines 111 and 222.

Twelve Bus supports will have to be installed with each one having its own structure and foundation.

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 5 of 5

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

The “77G” and “99G” busses are to be extended southwards from the existing 115kV switches 577 and 499 to the existing Luther Forest southern fence line.

The connection from the new NYSEG disconnect switch to the end of the rigid bus extension is to be bus conductor due to the elevation change in the field. This connection will be made above the existing Luther Forest southern fence line.

The equipment grounds are to be installed and attached to the existing Luther Forest station ground grid. The Luther Forest station ground grid has already been installed and does not need additional installation work.

1.5 Secondary Electrical Work

The AC station service has been reviewed and is adequate for this project.

The DC station service has been reviewed and is adequate for this project.

There is to be new secondary cables installed between the control house and the new revenue metering equipment.

There is an existing location in the Luther Forest station control house in control room “A” for the revenue meters and sockets. This location is on the wall next to the existing revenue meters and sockets for serving Global Foundries.

The revenue metering secondary cables are to be installed with rigid conduit from the CT/PT combo unit to the existing “A” trench and then brought down in the “A” trench with inter-duct into the existing control house (inter-duct color to be determined in Step 2A of the National Grid process).

The “A” and “B” trench systems are to be extended to the existing southern fence line. This will assist in the interconnection required for the protection and control of the two(2) stations.

The path in the new NYSEG station is planned to be conduit from their “A” and “B” trench systems to the National Grid “A” and “B” trench systems respectively.

The CT’s from the NYSEG new 115kV circuit breakers will be added to the “A” and “B” bus differential schemes. There are already spare FT-1 and PK-2 blocks installed to accommodate these CT circuits.

The contacts from the Bus Differential tripping and blocking relays will be wired to trip,   
block reclose and initiate breaker failure for the NYSEG new 115kV circuit breakers.

NYSEG will provide contacts from their 115 kV circuit breaker failure schemes to trip the 115kV bus for a failed breaker.

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 6 of 6

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

Contacts will be transmitted between each Company’s control house using SEL-2506   
contact converters and “A” and “B” fiber connectors between the two(2) stations.

There is space on the existing bus differential panels to add the SEL-2506 relays.

A new circuit will be added in each Bus Pot cabinet to provide NYSEG with 115 kV bus indication to use for the115kV breaker reclosing and synch check.

Status points from NYSEG will be added to the DFR to indicate breaker status and breaker failure tripping.

1.6 Associated Work

NYSEG will be installing a new 115kV - 34.5kV station.

1.7 Outages Required

There is a conceptual estimate of four(4) outages to help physically connect the two(2) stations and also help test & commission the circuits between the two(2) stations.

1.8 Environmental

The existing Luther Forest station completed construction in the summer of 2010 and there were no environmental issues. Therefore there are no anticipated environmental issues to complete this work.

1.9 Risks and Opportunities

The risks associated with this project are minimal since the original Luther Forest station design was laid out with a future interconnection to a NYSEG station as well as a future National Grid station (Refer to section 1.13 “One Line Diagram”).

1.10 License, Permit & ROW

There is no foreseen licensing and/or permits required for this project.

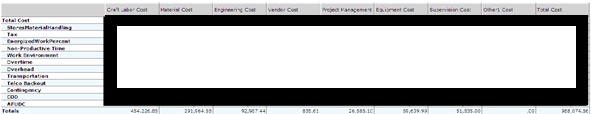
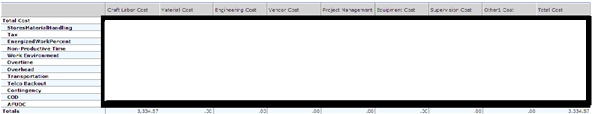
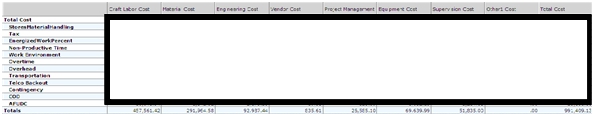
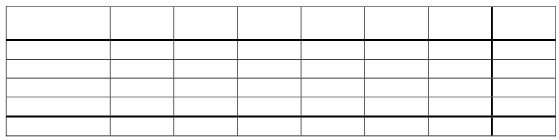
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 7 of 7

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

1.11 Cost Estimate

A study grade estimate has been developed with only the conceptual understanding of the project as described in this report. The estimate has been prepared using historical cost data, data from similar projects and other identified assumptions. The accuracy of this study grade estimate is expected to be -25% to +50%.

Capital

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Removal

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Total

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Yearly Cash Y1 Y2 Y3 Y4 Y5 Y6 Total

Flows ($K) ($K) ($K) ($K) ($K) ($K) ($K)

Prelim. Eng. $30 $30

Capital $958.5 $958.5

O&M $0 $0

Removal $3.5 $3.5

Total $992 $992

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 8 of 8

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

1.12 Schedule

Activity Duration

Preliminary Engineering 11-13 weeks after approval to begin

Final Design 16-20 weeks

Material and Equipment Procurement 24-26 weeks1

Construction 12-14 weeks2

Closeout 12 weeks

NOTE: 1. To be performed in parallel with Final Design.

2. Duration to include the 90 day window.

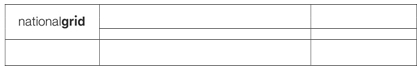
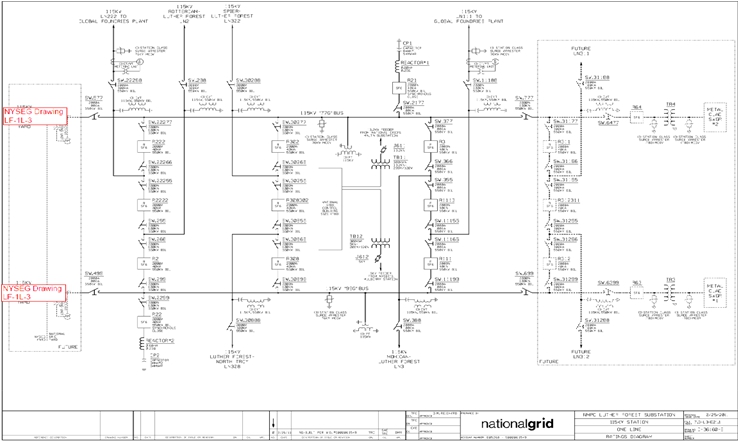
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 9 of 9

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

1.13 One Line Diagram

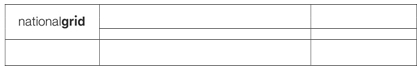
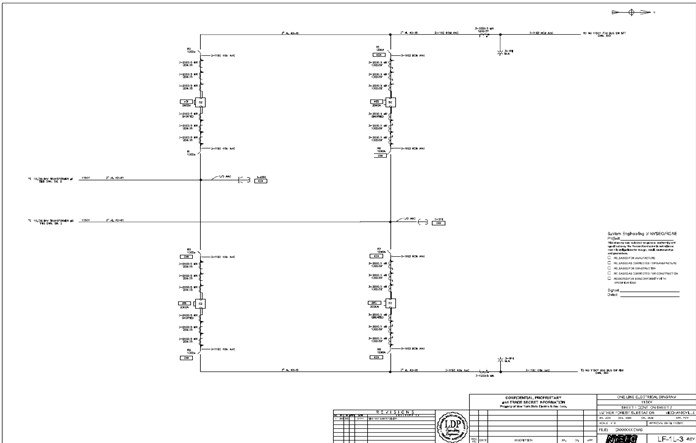
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 10 of 10

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

NYSEG: New station - 115kV portion

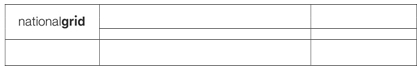
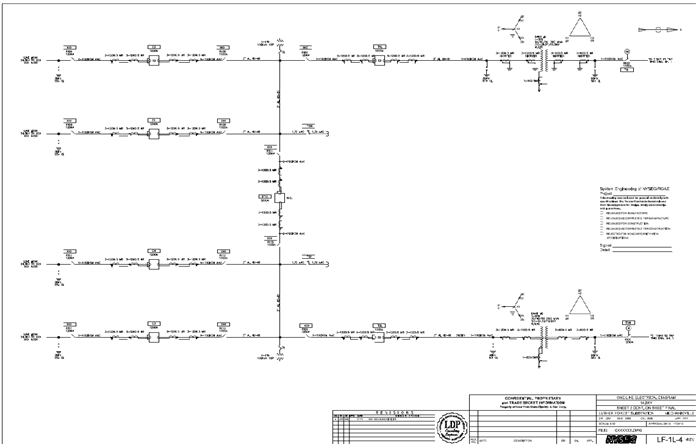
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 11 of 11

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

NYSEG: New station - 34.5kV portion w/ power transformers

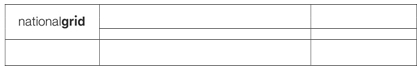
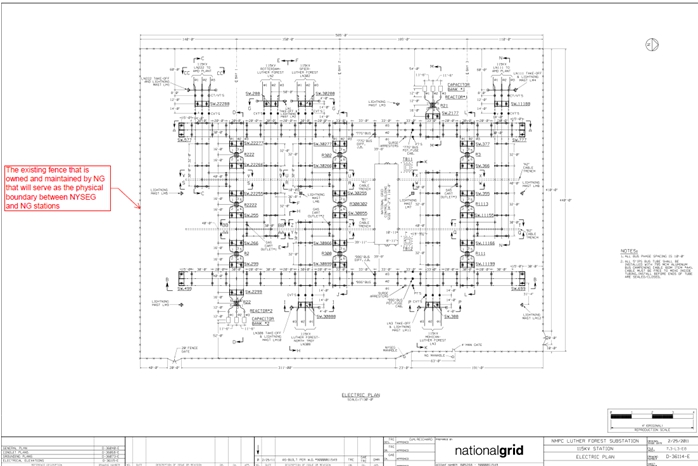
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 12 of 12

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

Luther Forest Station - Existing Physical layout

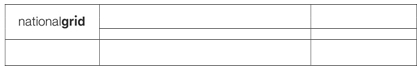
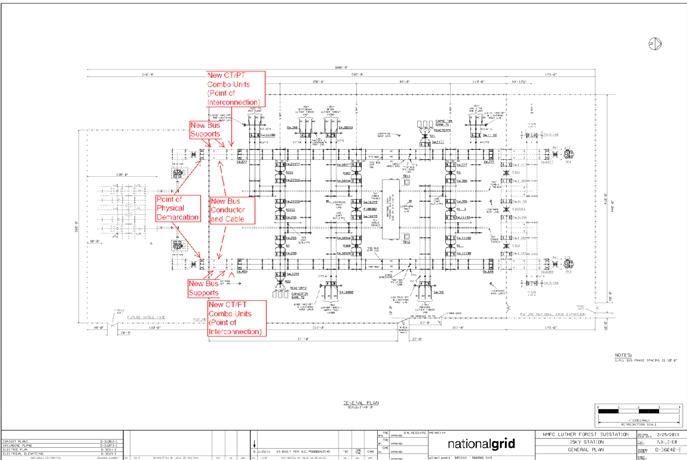
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 13 of 13

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

National Grid / NYSEG Station - 2008 Interconnection Plan

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 14 of 14

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

1.14 Photos/Sketches/Drawings

Photos - Typical Panel at Luther Forest Station

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 15 of 15

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

2.0 ALTERNATIVE 2 (ELECTRICAL SERVICE BULLITEN - ESB)

This is to support the construction of a new NYSEG station adjacent to the existing Luther   
Forest station and extending the existing “77G” and “99G” busses to serve the new   
station. The following is required; new revenue metering for each bus connection,   
physical demarcation points for maintenance purposes, modification of the existing bus   
protection packages to incorporate the bus extension to serve NYSEG, and shared   
drawings between the two(2) utility companies. The revenue metering location will be   
located within the existing Luther Forest station. The physical demarcation for

maintenance purposes will be at the newly installed NYSEG switch location (This switch   
will be installed in the NYSEG yard just south of the existing Luther Forest fence line at the   
south side of the station). National Grid will be the primary owner of the shared drawings   
and will work with NYSEG to appoint a contact person from each company to maintain   
these drawings.

SCOPE OF WORK for Alternative 2

2.1 Assumptions and Exceptions

Same as Alternative 1

2.2 Site Work

The two(2) new rigid steel conduits are to be installed from both revenue metering locations to the control house. The entry point at the control house for the rigid steel conduits should be at the “A” trench entrance.

The rest of the work will remain the same as Alternative 1

2.3 Civil/Structural Work

Same as Alternative 1

2.4 Primary Electrical Work

Same as Alternative 1

2.5 Secondary Electrical Work

The revenue metering secondary cables are to be installed with rigid conduit from the   
CT/PT combo unit to the control house and then brought into the control house with   
inter-duct in the cable trays (inter-duct color to be determined in Step 2A of the

National Grid process).

The rest of the work will remain the same as Alternative 1

2.6 Associated Work

Same as Alternative 1

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 16 of 16

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

2.7 Outages Required

Same as Alternative 1

2.8 Environmental

Same as Alternative 1

2.9 Risks and Opportunities

Same as Alternative 1

2.10 License, Permit & ROW   
 Same as Alternative 1

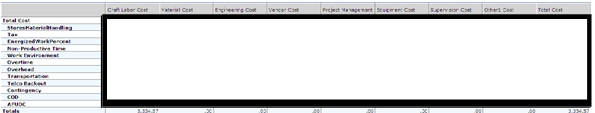
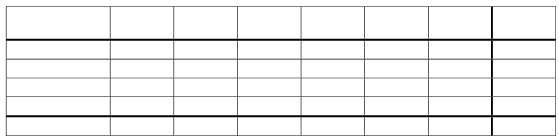
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 17 of 17

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

2.11 Cost Estimate

A study grade estimate has been developed with only the conceptual understanding of the project as described in this report. The estimate has been prepared using historical cost data, data from similar projects and other identified assumptions. The accuracy of this study grade estimate is expected to be -25% to +50%.

Capital

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Removal

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Total

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Yearly Cash Y1 Y2 Y3 Y4 Y5 Y6 Total

Flows ($K) ($K) ($K) ($K) ($K) ($K) ($K)

Prelim. Eng. $31 $31

Capital $996.5 $996.5

O&M $0 $0

Removal $3.5 $3.5

Total $1031 $1031

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 18 of 18

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

2.12 Schedule

Activity Duration

Preliminary Engineering 11-13 weeks after approval to begin

Final Design 16-20 weeks

Material and Equipment Procurement 24-26 weeks1

Construction 13-15 weeks2

Closeout 12 weeks

NOTE: 1. To be performed in parallel with Final Design.

2. Duration to include the 90 day window.

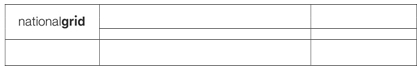
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 19 of 19

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

2.13 One Line Diagram (Same as Alternative 1)

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 20 of 20

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

2.14 Photos/Sketches/Drawings

Same as Alternative 1

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 21 of 21

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

3.0 ALTERNATIVE 3 (RITZ PTS AND CIRCUIT BREAKERS CTS)

This is to support the construction of a new NYSEG station adjacent to the existing Luther   
Forest station and extending the existing “77G” and “99G” busses to serve the new   
station. The following is required; new revenue metering for each bus connection,   
physical demarcation points for maintenance purposes, modification of the existing bus   
protection packages to incorporate the bus extension to serve NYSEG, and shared   
drawings between the two(2) utility companies. The revenue metering location will be   
located within the existing Luther Forest station. The physical demarcation for

maintenance purposes will be at the newly installed NYSEG switch location (This switch   
will be installed in the NYSEG yard just south of the existing Luther Forest fence line at the   
south side of the station). National Grid will be the primary owner of the shared drawings   
and will work with NYSEG to appoint a contact person from each company to maintain   
these drawings.

SCOPE OF WORK for Alternative 2

3.1 Assumptions and Exceptions

Same as Alternative 1

3.2 Site Work

Additional conduits will be installed between the “A” and “B” trench systems to each of the existing 115kV bus circuit breakers.

The rest of the work will remain the same as Alternative 1

3.3 Civil/Structural Work

Same as Alternative 1

3.4 Primary Electrical Work

There are to be six(6) new PT revenue metering units installed. Each one will have its own stand and foundation.

The rest of the work will remain the same as Alternative 1

3.5 Secondary Electrical Work

There will be new secondary cables separately connected from each of the existing 115kV bus circuit breakers to the control house (control room “A”) and terminated at the new revenue meter and socket location for the new NYSEG station.

The rest of the work will remain the same as Alternative 1

3.6 Associated Work

Same as Alternative 1

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 22 of 22

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

3.7 Outages Required

Same as Alternative 1

3.8 Environmental

Same as Alternative 1

3.9 Risks and Opportunities

Same as Alternative 1

3.10 License, Permit & ROW   
 Same as Alternative 1

3.11 Cost Estimate

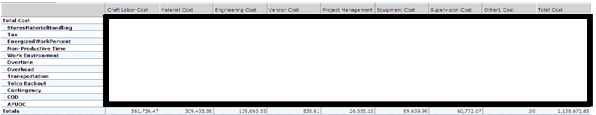
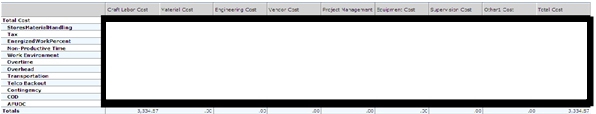
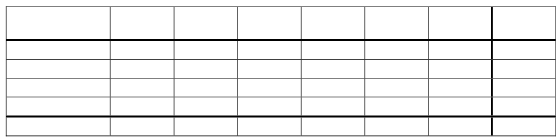
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 23 of 23

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

A study grade estimate has been developed with only the conceptual understanding of the project as described in this report. The estimate has been prepared using historical cost data, data from similar projects and other identified assumptions. The accuracy of this study grade estimate is expected to be -25% to +50%.

Capital

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Removal

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Total

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Yearly Cash Y1 Y2 Y3 Y4 Y5 Y6 Total

Flows ($K) ($K) ($K) ($K) ($K) ($K) ($K)

Prelim. Eng. $68.5 $68.5

Capital $1040 $30 $1070

O&M $0 $0

Removal $0 $3.5 $3.5

Total $1108.5 $33.5 $1142

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 24 of 24

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

3.12 Schedule

Activity Duration

Preliminary Engineering 12-14 weeks after approval to begin

Final Design 16-20 weeks

Material and Equipment Procurement 24-26 weeks1

Construction 16-18 weeks2

Closeout 12 weeks

NOTE: 1. To be performed in parallel with Final Design.

2. Duration to include the 90 day window.

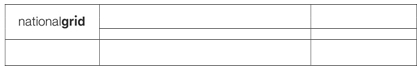
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 25 of 25

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

3.13 One Line Diagram (Same as Alternative 1)

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 26 of 26

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

3.14 Photos/Sketches/Drawings

Same as Alternative 1

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 27 of 27

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

4.0 ALTERNATIVE 4 (CIRCUIT BREAKERS AND REVENUE METERING)

This is to support the construction of a new NYSEG station adjacent to the existing Luther   
Forest station and extending the existing “77G” and “99G” busses to serve the new   
station. The following is required; new revenue metering for each bus connection,   
physical demarcation points for maintenance purposes, modification of the existing bus   
protection packages to incorporate the bus extension to serve NYSEG, and shared   
drawings between the two(2) utility companies. The revenue metering location will be   
located within the existing Luther Forest station. The physical demarcation for

maintenance purposes will be at the newly installed NYSEG switch location (This switch   
will be installed in the NYSEG yard just south of the existing Luther Forest fence line at the   
south side of the station). National Grid will be the primary owner of the shared drawings   
and will work with NYSEG to appoint a contact person from each company to maintain   
these drawings.

SCOPE OF WORK for Alternative 2

4.1 Assumptions and Exceptions

Same as Alternative 1

4.2 Site Work

New conduits are to be installed from both the “A” and “B” trench systems to both of the new circuit breakers. This will support the existing “A” and “B” separation design as well as allow the interconnection to NYSEG.

The rest of the work will remain the same as Alternative 1

4.3 Civil/Structural Work

A slab type foundation is to be installed per circuit breaker.

The rest of the work will remain the same as Alternative 1

4.4 Primary Electrical Work

There will be two(2) new 115kV, 40kA, 3000A circuit breakers installed, which will match the existing Luther Forest station circuit breakers.

There will be new bus conductor installed to connect the circuit breakers to the rigid bus. (The location of the circuit breakers is referenced in section 4.13)

The rest of the work will remain the same as Alternative 1

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 28 of 28

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

4.5 Secondary Electrical Work

The relay & control cables are to be installed per the respective trench system from the circuit breaker to the control house to maintain the “A” and “B” separation design that presently exist at Luther Forest station.

New relay & control panels will be added to the lineup and contain control switches   
and breaker failure relaying for the new National Grid 115kV circuit breakers. CT’s   
from the new 115kV circuit breakers will be added to the “A” and “B” bus differential   
schemes. The outputs from the Bus Differential tripping and blocking relays will be   
wired to trip, block reclose and initiate breaker failure of the new National Grid 115kV   
circuit breakers.

The new 115kV circuit breakers will also be incorporated into the 115kV bus

differential schemes installed in the NYSEG control house. NYSEG will provide   
contacts from their 115 kV bus differential schemes to initiate breaker failure.

The rest of the work will remain the same as Alternative 1

4.6 Associated Work

Same as Alternative 1

4.7 Outages Required

Same as Alternative 1

4.8 Environmental

Same as Alternative 1

4.9 Risks and Opportunities

The maintenance separation for CT testing will be limited to the two(2) new circuit breakers, instead of the five(5) 115kV bus circuit breakers as in alternatives 1 - 3.

The rest of the risk and opportunities will remain the same as Alternative 1

4.10 License, Permit & ROW

Same as Alternative 1

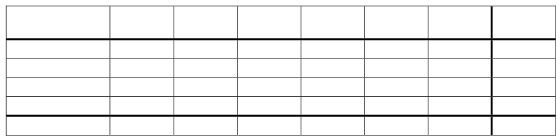
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 29 of 29

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

4.11 Cost Estimate

A study grade estimate has been developed with only the conceptual understanding of the project as described in this report. The estimate has been prepared using historical cost data, data from similar projects and other identified assumptions. The accuracy of this study grade estimate is expected to be -25% to +50%.

Capital

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Removal

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Total

Critical Energy Infrastructure Information Redacted Pursuant to 18 C.F.R. § 388.112

Yearly Cash Y1 Y2 Y3 Y4 Y5 Y6 Total

Flows ($K) ($K) ($K) ($K) ($K) ($K) ($K)

Prelim. Eng. $68.5 $68.5

Capital $1311.5 $400 $1711.5

O&M $0 $0

Removal $0 $3.5 $3.5

Total $1380 $403.5 $1783.5

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 30 of 30

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

4.12 Schedule

Activity Duration

Preliminary Engineering 12-14 weeks after approval to begin

Final Design 28-36 weeks

Material and Equipment Procurement 24-26 weeks1

Construction 28-30 weeks2

Closeout 12 weeks

NOTE: 1. To be performed in parallel with Final Design.

2. Duration to include the 90 day window.

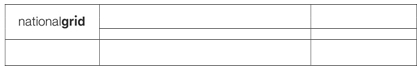
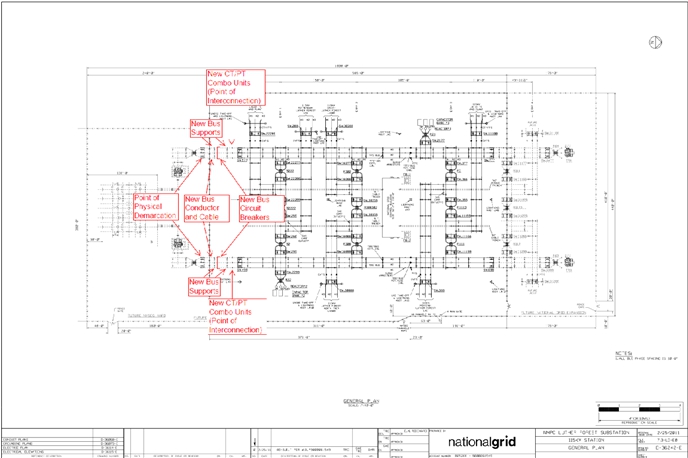
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 31 of 31

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

4.13 National Grid / NYSEG Stations - 2008 Interconnection Plan (All other Drawings are the same as Alternative 1)

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 32 of 32

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

4.14 Photos/Sketches/Drawings

Same as Alternative 1

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION



ENGINEERING DOCUMENT

Page 33 of 33

Conceptual Engineering Report for Substations

Luther Forest - Interconnection with NYSEG 115kV/34.5kV station

Version 1.0- 06/24/11

5.0 REVISION HISTORY OF PROJECT DOCUMENT

Version Date Description of Revision

1.0 08/05/11 Initial version of document.

Based on site visit, discussions with field personnel and review of drawings.

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED.

FOR THE LATEST AUTHORIZED VERSION PLEASE REFER TO THE APPROPRITATE DEPARTMENT WEBSITE OR DOCUMENTUM.

File:RE.09.00.001 Conceptual Engineering Report for Substations Originating Department: Sponsor:

App File: LUTHER FOREST - INTERCONNECTION WITH NYSEG Substation Engineering and Design Donald T. Angell

115KV/34.5KV STATION