

Request for Proposals
for
Renewable Energy Resources
RFP # 1010



October 5, 2007



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I.0 INTRODUCTION

North Carolina Electric Membership Corporation (NCEMC) is issuing this Request for Proposals (RFP) for renewable energy resources to serve a portion of its members' future load and energy requirements beginning January 1, 2012. NCEMC desires to build a supply portfolio of energy and capacity generated from new (placed in service on or after Jan. 1, 2007) renewable or existing NC Green Power sources that qualify as meeting the requirements of NC Session Law 2007-397 ("Senate Bill 3") including, but not limited to:

- Solar (Electric or Thermal)
- Wind
- Hydro
- Biomass

This list is not intended to be all encompassing; any other product that is capable of meeting the standards and associated rules as set forth by the North Carolina Utilities Commission ("NCUC"), as well as the requirements of Section 3 of this RFP document will be considered.

NCEMC is seeking up to 200 MW of renewable energy resources in order to meet the Renewable Energy and Energy Efficiency Portfolio Standards (REPS) as set forth by Senate Bill 3. The NCUC has initiated a rulemaking to establish more specific rules and procedures in accordance with Senate Bill 3. Those rules, procedures and criteria will ultimately impact the evaluation of proposals.

NCEMC strongly prefers proposals for renewable energy resources that locate the source(s) of capacity within the existing control areas of Progress Energy Carolinas, Inc. (PEC), Duke Energy Corporation (Duke), or Dominion Virginia Power (VEPCO). Bids for resources outside of the state of North Carolina will be considered, however only a limited number of Renewable Energy Certificates (RECs) are allowed from these out-of-state sources in the current legislation.

NCEMC is seeking proposals for resources and RECs that provide the greatest value to NCEMC and its members while meeting the eligibility requirements of Senate Bill 3 and the rules promulgated by the NCUC.

NCEMC expects that this RFP will be met by a variety of suppliers with varying terms. Independent power producers, qualifying cogeneration facilities, small power production facilities, power marketers, electric utilities or any other entities able to provide all or a portion of the stated needs are encouraged to respond.

NCEMC, at any time during the RFP process prior to execution of one or more contracts, reserves the right to:

- reject or accept any or all proposals for greater or less than or none of the amount of firm capacity originally requested
- reject or accept any proposals that are not complete or contain irregularities;
- reject or accept any proposal that is not received on or before the due date specified;
- accept other than the lowest bid proposal;
- obtain clarification from Respondents concerning proposals;
- conduct negotiations with the Respondents determined to be most competitive to arrive at a final price and term and conditions; and
- modify its requirements due to a clarification of NCUC rules or other legislation.

I.1 Schedule

The schedule for submission and evaluation of proposals by NCEMC is as follows. This schedule is subject to change by NCEMC.

RFP 1010 Schedule	
RFP issued	5 October 2007
Deadline: Notice of Intent to Respond	26 October 2007
Bid Submission Date	7 December 2007
Short List Notification	4 February 2008
Award Notification	14 April 2008
Negotiations complete	13 June 2008

2.0 NCEMC BACKGROUND

The service territories of NCEMC's member cooperatives are located within the control areas of PEC, Duke, and PJM (VEPCO). Therefore, the NCEMC system is currently divided into three distinct supply areas. Each of NCEMC's supply areas includes that portion of the load of each member cooperative within the control area of one of its three Network Integration Transmission Service providers. Currently, NCEMC has in place certain resources in each control area that are restricted to that supply area, as well as flexible resources that can serve load in multiple control areas.

In 2006, NCEMC provided approximately 11,600 GWh of energy and over 2,800 MW of demand to its participating member cooperatives, who in turn served approximately 600,000 retail customers.

NCEMC's current supply portfolio consists of owned generation and power purchase agreements. The owned generation assets are nuclear generation and quick-start aero derivative peaking resources. The total amount of generation capacity is 1,305 MW, equally divided between the base and peaking generation and located in the Duke and PEC control areas. Additionally, certain NCEMC member cooperatives purchase energy and capacity from the Southeastern Power Administration (SEPA).

3.0 DESCRIPTION OF NEED

The product requested in this solicitation will be used to serve both NCEMC's energy and capacity needs and renewable energy requirements under the REPS. This product will be used to meet the mandates of Senate Bill 3 and regulations / requirements as determined by the NCUC.

3.1 Capacity, Energy, and Renewable Energy Certificates Requested

NCEMC will accept proposals for capacity with a minimum bid size of one (1) MW or greater. Proposals should include all capacity, energy, and RECs associated with the proposed resources. Resources can be from assets or projects inside or outside the state of North Carolina; however Senate Bill 3 limits the number of RECs that can be purchased from outside the State.

3.2 Priority of Service

NCEMC requires non-recallable rights on the capacity, energy, and RECs solicited in this RFP for the purpose of serving NCEMC's native load and REPS requirements.

3.3 Resource Characteristics

- The supply resource can be intermittent in nature; however, firm or dispatchable supply may be assigned additional value in the review process. Hourly profiles, as appropriate, should be provided for resources that are intermittent.
- Resources that will provide energy to serve NCEMC's native load must be capable of being delivered to the PEC, Duke or VEPCO control areas, with preference given to (but not limited to) those assets within North Carolina.
- Resources should be operational and delivering power prior to January 1, 2012. Flexibility of start date to meet NCEMC's staggered, growing need

will be considered beneficial, and valued accordingly.

- Although liquidated damages will be required for all proposals, a proposal that is only financially firm, other than RECs, will not be considered equivalent to a proposal that is system firm or tied to a portfolio of resources.
- Commercially proven renewable technology will be given a higher value than other technologies.

3.4 Contract Term

NCEMC is open to either long or short-term proposals. NCEMC prefers contracts of at least five years that contain an option for contract extension, provided that the strike date for the extension is no more than two years prior to the start date of the contract extension. NCEMC desires proposals with a start date on or after January 1, 2012. Flexibility in start dates and/or term is encouraged.

3.5 Pricing

NCEMC requires Respondents to provide complete pricing information for each proposal submitted. The energy charge should include all energy related charges including but not limited to fuel, start-up costs, operations and maintenance costs, etc.

Pricing should include all costs to deliver the power to the specified Point of Delivery, including but not limited to losses, transmission charges, and services provided by third parties. REC pricing should be expressed in \$/MWh as an all-in price.

All Respondents are asked to hold their prices firm until the short list is announced. Once the short list is announced, short-listed Respondents must hold their prices firm until the contract is executed.

3.6 Dispatch and Scheduling

The supply resource can be intermittent in nature; however, firm or dispatchable supply may be assigned additional capacity value in the review process. Hourly profiles, as appropriate, should be provided for resources that are intermittent in nature.

4.0 TRANSMISSION AND DELIVERY INFORMATION

Respondents may choose to deliver the proposed capacity and energy to the PEC Eastern control area, the VEPCO control area, or the Duke control area. However, Respondents must designate the specific control area interface or point in the control area that will be the Point of Delivery for the proposed capacity and energy. Respondents can designate more than one Point of Delivery, but in such case must specify the corresponding delivery MW to each Point of Delivery.

Respondents are required to deliver the proposed energy and capacity to NCEMC at the Respondent's designated Point of Delivery using firm transmission service. All costs associated with delivery of the proposed energy and capacity to the transmission interconnection designated as the Point of Delivery – including but not limited to transmission service, losses, ancillary services, and system upgrades if necessary -- must be included in the pricing proposal submitted as Form IV in Section 6.0 of this document. Upon execution of a contract, NCEMC would prefer to have any firm transmission rights required for delivery assigned to NCEMC.

NCEMC will favor proposals that allow contract flexibility to accommodate any operational changes associated with regulatory issues and changes that may affect NCEMC during the contract period. Any risk related to deliverability or congestion charges will be considered when evaluating the proposals. Proposals in the VEPCO control area will be evaluated against PJM market rules.

NCEMC will also favor those proposals that include results of any Transmission System Impact Study and/or Facilities Study performed, and/or any OASIS reservations made. Contract(s) that result from this RFP for physical assets with capacity value are contingent upon the proposed resource(s) being accepted as Designated Network Resource(s) and confirmation of firm transmission service.

5.0 SUBMISSION OF PROPOSALS

Respondents shall closely follow the instructions below. NCEMC reserves the right to disqualify proposals that deviate from these instructions.

All correspondence related to this RFP should be sent to the following address if delivered by U.S. mail:

North Carolina Electric Membership Corporation
P.O. Box 27306
Raleigh, North Carolina 27611-7306
Fax (919) 954-7225
Attention: Ms. Carolyn Loncosky, RFP Coordinator

If delivered by hand or courier service, the following address applies:

North Carolina Electric Membership Corporation
3400 Sumner Boulevard
Raleigh, North Carolina 27616
Fax (919) 954-7225
Attention: Ms. Carolyn Loncosky, RFP Coordinator

5.1 Intent to Bid

Prospective Respondents should complete the Notice of Intent to Bid form and return it to the address above or via e-mail to the attention of:

Ms. Carolyn Loncosky
RFP Coordinator
E-mail Address: Renewable.RFP@ncemcs.com

This form is due no later than October 26, 2007. Facsimiles or E-mail are

satisfactory as a means to return the Notice of Intent to Bid, but telephone notices are not acceptable. Only those organizations that submit the Notice of Intent to Bid will receive RFP addenda and have access to follow-up questions and answers regarding the RFP. Failure to submit the Notice of Intent to Bid is not cause for disqualification.

5.2 Questions about Solicitation Process

Reasonable questions or clarifications about this RFP shall be made in writing and e-mailed to:

Ms. Carolyn Loncosky

RFP Coordinator

E-mail Address: Renewable.RFP@ncemcs.com

Questions should refer to RFP #1010. NCEMC will respond to those questions submitted which NCEMC believes, at its sole discretion, will assist in clarifying the RFP. NCEMC will make available to all Respondents returning the Intent to Bid a copy of such questions and answers, with the name of the party making the request deleted. NCEMC does not expect to respond to telephone inquiries.

5.3 Bid Format and Submittal

Proposals must provide the information requested in **Section 6.0 – PROPOSAL CONTENT**. Respondents are asked to use the provided forms, edited as necessary. If this is not possible, Respondents are asked to use a similar format, maintaining the form number and section lettering as headings. The Respondent name and project name should be included on every form. Respondents shall assemble and attach to the proposal all supplementary information necessary to describe the proposal.

All proposals must be actually received at the offices of NCEMC by no later than 2:00 p.m. EPT on December 7, 2007. One (1) original and four (4) copies must be

submitted and clearly labeled:

North Carolina Electric Membership Corporation
Confidential - Proposal to NCEMC in Response to RFP #1010
Sealed Proposal – Do Not Open Until 2:00 p.m. EPT on
December 7, 2007

Proposals should be addressed to the attention of:

Ms. Carolyn Loncosky
RFP Coordinator

In addition to hard copies, all Response Forms should be submitted in electronic format to NCEMC to the extent possible. If the Respondent intends to propose more than one offer to NCEMC, each offer must be submitted as a different proposal. This includes separate offers for the same resource. All proposals submitted to NCEMC must contain the information specified in this RFP. Proposals received on or before the deadline shall become the property of NCEMC. Proposals received after the deadline will be retained as the property of NCEMC. However, NCEMC reserves the right to disqualify any proposals received after the deadline.

NCEMC is not requiring a bid evaluation fee as part of this RFP.

The instructions for filling out the forms in Section 6.0 represent the minimum requirements for any proposal to be considered responsive and entitled to further consideration. NCEMC may eliminate from further consideration proposals that do not include the applicable minimum requirements.

5.4 Viability of Respondent

The respondent must provide sufficient evidence of financial and operational capability to provide the services outlined in the proposal during the contract

term. The financial and operational viability of any third parties relied upon by the respondent for providing service to NCEMC must also be demonstrated. The respondent, its parent, and any other guarantor of services under the respondent's proposal, should provide audited financial statements from the previous three years in order to demonstrate financial viability. If the respondent's guarantor has a credit rating, the most recent ratings reports must be provided also.

5.5 Confidentiality

NCEMC will make reasonable efforts to keep the proposals confidential to the extent allowed by law. Respondents should be aware that the information provided as a result of this RFP may be subject to review by the Rural Utilities Service (RUS), the North Carolina Utilities Commission (NCUC), or another governmental authority or judicial body with jurisdiction relating to these arrangements. As a result of such review, the information may become subject to federal or state laws pertaining to public access to documents and information in the custody of governmental bodies.

NCEMC may utilize ACES Power Marketing, Inc. (ACES) or another third party to review proposals, assist in the evaluation, and to participate in negotiations with Respondents. If requested by Respondent, NCEMC will require assurances from such third party that information provided to it be treated in a confidential manner.

5.6 Costs Incurred in Responding

All costs directly or indirectly related to the preparation of a response to this RFP and subsequent discussions are the responsibility of the Respondent. NCEMC will not reimburse any Respondent for any costs incurred in the preparation or submission of a proposal and/or the negotiation of an agreement resulting from a proposal.

6.0 PROPOSAL CONTENT

A proposal should contain, at minimum, responses on all Response Forms provided with the RFP. Respondents should fill out the Response Forms, following the instructions provided in this section. In some instances it may be necessary for the Respondent to edit the table to include more years, seasonal data, etc. In other instances, Respondents are asked to select from several tables the one(s) that are applicable. For those tables that are not applicable, please specify N/A. If the form asks for a map or study, please include with the document a cover sheet with the appropriate heading specifying the section of the form to which it responds. For example, audited financial statements are requested on Form VI, section G and should be attached with a cover sheet labeled Form VI.G preceding it.

Respondents may submit proposals of varying type and capacity, but for each variation must submit an individual complete set of Response Forms. Respondents are encouraged to provide additional information or other factors necessary to provide a complete description of the proposal.

NCEMC retains the right to deem any proposal that has an incomplete response as non-responsive and to disqualify the proposal. Alternatively, NCEMC can request further clarification or information on any proposal. Failure to provide additional requested information may result in a proposal being disqualified as non-responsive.

NCEMC retains the right to combine any proposal with any other proposal to determine a mix of resources that will provide a total economical and reliable resource package.

Notice of Intent to Respond

Respondents should fill out the Notice of Intent to Respond form completely and return it to NCEMC as directed in Section 5.1 of this document. Although this form is not required to submit a bid, only Respondents who return the form will receive RFP addenda and have access to questions and answers regarding the RFP process.

Form I – Respondent Information

This form requests general information on the Respondent and must be filled out in its entirety.

Form II – Executive Summary

The Respondent should provide a general description of their proposal, noting any particular benefits to NCEMC associated with the proposal.

Form III – Power Supply (Purchased Power Proposals)

All Respondents proposing a Purchased Power proposal must submit the power supply information requested on Form III.

The type of capacity should be specified, with a detailed description of the source of capacity. This description should include the name, location, capacity (MW), and type of unit for each resource that is part of the proposed capacity. The Respondent must specify if the capacity has been obligated to another party in any way, and how this may affect NCEMC's use of the resource.

Indicate the term being offered (the final contract term will be determined through contract negotiations). If there are any contract extension provisions, please specify in the space provided. Please specify if there is flexibility regarding the proposal start date; i.e. the term start in either 2012 or 2013.

The capacity and energy amounts should be provided by year, with revisions to

the table for seasonal or monthly values if appropriate. Any flexibility in the capacity MW amounts offered should be described.

The level of firmness should be specified by either filling in section E.1 with the source of reserves for resources that are 100% firm, or by filling in section E.2 for resources that are not 100% firm. If the Respondent is proposing a portfolio of units with different availabilities, the tables in section E.2 should be duplicated and filled out for each unit. Appendix A contains NERC definitions to use for the guaranteed availability and forced outage rates of the resource(s).

Section F of Form III requires information on the scheduling and dispatch requirements for the resource. The Respondent should first specify whether the proposed resource has load following capability in section F.1. The Respondent should provide a description of the load following capabilities if included. Proposals that include load following capability should include an option to discontinue this service if no longer necessary.

In section F.2, please specify the required lead-time for scheduling the proposed resource. Section F.3 requests the minimum number of hours that NCEMC must schedule the resource. NCEMC prefers proposals without minimum energy take requirements. In section F.4, the Respondent should note any other operational factors affecting scheduling and dispatch, such as ramp rates, limited starts, etc. In section F.5, the Respondent should provide any non-operational limitations on the resource's output; for example, any restrictions on selling excess energy out of the resource or displacing energy from the resource with market purchases.

Form IV – Pricing (Purchased Power Proposals)

Respondents proposing a Purchased Power proposal should provide the information requested in Form IV.

The pricing proposal provided in this section must be for capacity, energy, and

RECs. RECs should be specified as an “all-in” price in \$/MWh units. Additionally, the REC must meet the requirements specified in Senate Bill 3 section 62.133.7.6. The pricing for capacity and energy provided must include the cost to deliver to the Point of Delivery over the term of the sale. The pricing proposal must reflect any transmission related charges, including losses. Respondents who are proposing pricing for terms longer than ten years or with seasonal pricing should modify the tables included in this exhibit to include all pricing increments for each year.

Respondents proposing fixed capacity prices must submit the capacity payment component of the proposal over the term of the contract. The capacity price should be shown in nominal dollars, and the entire table should be filled out to include the total capacity charge. If the capacity price is not fixed, the Respondent should indicate in the table provided what factors will affect the price and how.

There are several ways that the Respondent may supply energy pricing. Based on the Respondent’s pricing proposal, the Respondent should fill out the appropriate table as noted.

Respondents proposing fixed energy prices should complete section B.1 for the term of the proposal. Prices should be in nominal dollars.

Respondents proposing energy prices on a \$/MWh basis depending on a given index or indices should complete section B.2 showing the base energy price and the base year assumption for that price. The Respondent should also show its base year price escalating through the term of the contract at the proposed escalation index, resulting in nominal energy rates. Please provide a description of the index or indices to be used for escalation in the provided space.

Section B.3 applies to proposals in which the energy payment depends on a unit or system heat rate. In addition to filling out the table in this section on heat rates,

Respondents should describe the primary and secondary fuel type with an estimate of the usage of each. Respondents should specify if fuel price is based on a gas price index or will be a direct pass through. In either case Respondents should specify any additional costs that will apply (firm gas transportation, distribution charges or fuel price adders, for example). NCEMC will use its internal fuel price forecast to evaluate those proposals, calculating the energy pricing utilizing the bidder-supplied heat rates.

Respondents that have any additional pricing components (for example, start-up costs or operations and maintenance expense) in their proposal should modify the table in section C of Form IV to show these costs. Please include pricing units in the table (for example \$/MWh). If additional information is necessary to describe the additional pricing, please use the space provided.

Form V – Transmission

The Respondent should fill out either section A or B of this form depending upon the proposed Point of Delivery and method of interconnection. Maps of the Duke, PEC, and VEPCO control areas are available from FERC upon completion of a request for “Critical Energy Infrastructure” approval for FERC Form 715 powerflow data and maps. Please visit <http://www.ferc.gov/help/filing-guide/file-ceii.asp> for the forms and process for completing this request.

- Respondents who plan to locate within the PEC, Duke, or VEPCO control area, and are interconnected (or will be interconnected) with one or more of the above systems, should fill out Section A of Form V.
- Respondents, who are located outside of the PEC, Duke, and VEPCO control areas with any of these control areas specified as the Point of Delivery, but are not interconnected with any of the transmission systems corresponding to these control areas, should fill out Section B of Form V.

Section A Directions: Respondents should identify on the appropriate

transmission map(s) the existing interconnection point(s) or, if a new interconnection is required, the proposed location of that interconnection with the appropriate transmission system(s). For new interconnections, the Respondent should indicate in the corresponding tables the following information:

- Voltage level
- Interconnection configuration (e.g. ring bus, breaker-and-a-half, single circuit, double circuit, etc.)
- Plan, including relevant milestones, for interconnection, indicating the current status of discussions with Transmission Provider and OASIS reservation number if reservation has already been made, concerning these arrangements.
- Evidence of the technical feasibility of such interconnection. Respondent may provide the results of any Generation Interconnection Study, Transmission System Impact Study and/or Facilities Study supporting the proposal in this exhibit.

Section B Directions: Respondents should identify, on the appropriate transmission system map(s), the interface where delivery is to be made. Respondents should provide the plan, including relevant milestones, for obtaining firm transmission service necessary for delivery to the proposed interface. Respondents must provide evidence supporting technical feasibility of transmission service to the proposed Point of Delivery. Respondent should provide a copy of any Transmission System Impact Study and/or Facilities Study and any OASIS reservations supporting the proposal in this exhibit.

Form VI – Financial Information

The information provided in this form will assist NCEMC in evaluating the financial viability of the Respondent. Please provide the requested information in the provided tables, and attach audited financial statements as requested. Respondents providing multiple proposals need only include one set of financial documents.

7.0 PROPOSAL EVALUATION/AWARD

NCEMC will conduct an evaluation of the responses to this RFP to determine which proposals, if any, will most likely provide the greatest overall value to NCEMC's member cooperatives. The proposal with the greatest overall value will provide a low cost, reliable power supply with the flexibility to easily modify the proposal to fit unexpected changes in the market and/or NCEMC's power supply situation at minimal cost to NCEMC and the Respondent. The evaluation process will consist of an initial screening and a detailed evaluation as explained below.

7.1 Initial Screening

The initial screening will determine the proposals that are to be retained for further evaluation. Proposals will be evaluated for completeness and economic viability as part of the initial screening.

The proposals will be reviewed to determine if they contain all the information requested in Section 6.0 of this document. Proposals may be deemed ineligible for further consideration at this point due to incomplete responses, non-specific responses, or modification to the format stipulated in this document. NCEMC may, at its sole discretion, request additional information or clarifications.

All proposals that are deemed eligible for further consideration will be subjected to a preliminary economic analysis. The preliminary economic analysis will eliminate bids that are clearly non-competitive.

7.2 Detailed Evaluation

Based on the detailed evaluation, NCEMC will determine which of the proposals will potentially provide the greatest overall value to NCEMC's members. This evaluation will consider the following major factors:

- Ability to meet the requirements of SB3 and NCUC promulgated rules

- Price level and deal structure
- Viability of the technology, including risk due to fuel and other factors
- Overall reliability and security of delivery
- Experience and financial strength of Respondent

7.3 Selection of Short-List

NCEMC plans to select one or more proposals that, in NCEMC's sole judgment, will most likely yield the greatest value to NCEMC's members. Those selected may include a single proposal or multiple proposals that provide the aggregate capacity requested. NCEMC will initiate negotiations with sellers of capacity in the Short-List Group by presenting a proposed draft power purchase agreement. NCEMC may request additional information from the Short-List Group regarding the viability of their proposals.

All Respondents must keep the terms of their bids in effect until February 4, 2008. Respondents selected for the short-list must be willing to keep the terms of their bids in effect until execution of the contract. NCEMC will notify the Respondents chosen for the short-list by February 4, 2008. Short-list Respondents should be prepared to begin negotiations the week of February 4, 2008. NCEMC will notify the remaining Respondents that they were not selected for the short-list. The initiation of negotiations, however, does not imply any commitment on the part of NCEMC to enter into any agreement. Neither NCEMC nor any Respondent will be bound to enter into a contract until such time as a definitive contract containing mutually satisfactory terms and conditions is executed by the parties.

7.4 Selection of Award Group

Following negotiations, NCEMC plans to complete the evaluation and ranking of the short-list proposals on or around April 15, 2008. At that time, all the Respondents included in the short-list will be notified as to whether or not their proposal was selected for the Award Group. As noted above, NCEMC reserves the right to reject any or all of the proposals received as a product of this RFP.

APPENDIX A

North American Electric Reliability Council Equations and Definitions

Source: Internet: <http://www.nerc.com>

EQUATIONS

Unweighted

Average Run Time - ART

$[\text{SH}/\text{Actual Unit Starts}]$

Starting Reliability - SR

$[\text{Actual Unit Starts}/\text{Attempted Unit Starts}] \times 100 (\%)$

Net Capacity Factor - NCF

$[\text{NAG}/(\text{PH} \times \text{NMC})] \times 100 (\%)$

Net Output Factor - NOF

$[\text{NAG}/(\text{SH} \times \text{NMC})] \times 100 (\%)$

Service Factor - SF

$(\text{SH}/\text{PH}) \times 100 (\%)$

Availability Factor - AF

$(\text{AH}/\text{PH}) \times 100 (\%)$

Equivalent Availability Factor - EAF

$\{[\text{AH} - (\text{EUDH} + \text{EPDH} + \text{ESEDH})]/\text{PH}\} \times 100 (\%)$

Forced Outage Rate - FOR

$[\text{FOH}/(\text{FOH} + \text{SH})] \times 100 (\%)$

Equivalent Forced Outage Rate - EFOR

$[(\text{FOH} + \text{EFDH})/(\text{FOH} + \text{SH} + \text{EFDHRS})] \times 100 (\%)$

Scheduled Outage Factor - SOF

$(\text{SOH}/\text{PH}) \times 100 (\%)$

Forced Outage Factor - FOF

$(\text{FOH}/\text{PH}) \times 100 (\%)$

Weighted*

Weighted Service Factor - WSF

$[\Sigma(\text{SH} \times \text{NMC}) / \Sigma(\text{PH} \times \text{NMC})] \times 100 (\%)$

Weighted Availability Factor - WAF

$[\Sigma(\text{AH} \times \text{NMC}) / \Sigma(\text{PH} \times \text{NMC})] \times 100 (\%)$

Weighted Equivalent Availability Factor - WEAF

$\{[\Sigma(\text{AH} \times \text{NMC}) - \Sigma[(\text{EUDH} + \text{EPDH} + \text{ESEDH}) \times \text{NMC}]] / \Sigma(\text{PH} \times \text{NMC})\} \times 100 (\%)$

Weighted Forced Outage Rate - WFOR

$\{\Sigma(\text{FOH} \times \text{NMC}) / \Sigma[(\text{FOH} + \text{SH}) \times \text{NMC}]\} \times 100 (\%)$

Weighted Equivalent Forced Outage Rate - WEFOR

$\{\Sigma[(\text{FOH} + \text{EFDH}) \times \text{NMC}] / \Sigma[(\text{FOH} + \text{SH} + \text{EFDHRS}) \times \text{NMC}]\} \times 100 (\%)$

Weighted Scheduled Outage Factor - WSOF

$[\Sigma(\text{SOH} \times \text{NMC}) / \Sigma(\text{PH} \times \text{NMC})] \times 100 (\%)$

Weighted Forced Outage Factor - WFOF

$[\Sigma(\text{FOH} \times \text{NMC}) / \Sigma(\text{PH} \times \text{NMC})] \times 100 (\%)$

*Applies to groups of units only.

Equivalent Forced Outage Rate demand – EFORD

$$\frac{[(f \times \text{FOH}) + (fp \times \text{EFDH})] \times 100}{[\text{SH} + (f \times \text{FOH})]}$$

where $fp = (\text{SH}/\text{AH})$

$$f = \left(\frac{1}{r} + \frac{1}{T} \right) \left(\frac{1}{r} + \frac{1}{T} + \frac{1}{D} \right)$$

$r = \text{Average Forced Outage duration} = [\text{FOH} / (\text{number of FO occurrences})]$

$D = \text{Average demand time} = [\text{SH} / (\text{number of actual unit starts})]$

$T = \text{Average Reserve Shutdown time} = [\text{RSH} / (\text{number of attempted unit starts})]$

Notes:

Equivalent hours are computed for each derating and then summed. Size of Reduction is determined by subtracting the Net Available Capacity (NAC) from the Net Dependable Capacity (NDC). In cases of multiple deratings, the Size of Reduction of each derating is the difference in the NAC of the unit prior to the initiation of the derating and the reported NAC as a result of the derating.

DEFINITIONS

Actual Unit Starts

Number of times the unit was synchronized to the transmission system.

Attempted Unit Starts

Number of attempts to bring the unit from shutdown to synchronization.

Available Hours - AH

Sum of all SH, RSH, Pumping Hours, and Synchronous Condensing Hours.

Equivalent Forced Derated Hours - EFDH

Product of the Forced Derated Hours and the Size of Reduction, divided by the NMC.

Equivalent Forced Derated Hours During Reserve Shutdowns - EFDHRS

Product of the Forced Derated Hours (during Reserve Shutdowns (RS) only) and the Size of Reduction, divided by the NMC.

Equivalent Planned Derated Hours - EPDH

Product of the Planned Derated Hours and the Size of Reduction, divided by the NMC.

Equivalent Seasonal Derated Hours - ESEDH

NMC less the NDC, times the Available Hours (AH), divided by the NMC.

Equivalent Unplanned Derated Hours - EUDH

Product of the Unplanned Derated Hours and the Size of Reduction, divided by the NMC.

Forced Derated Hours - FDH

Sum of all hours experienced during Forced Deratings.

Forced Outage Hours - FOH

Sum of all hours experienced during Forced Outages.

Net Available Capacity - NAC

The NDC, modified for equipment limitations.

Net Actual Generation - NAG

Net electrical megawatthours (MWh) produced by the unit during the period being considered.

Net Dependable Capacity - NDC

NMC modified for ambient limitations.

Net Maximum Capacity - NMC

Capacity a unit can sustain over a specified period when not restricted by ambient conditions or equipment deratings, minus the losses associated with station service or auxiliary loads.

Period Hours - PH

Number of hours a unit was in the active state. A unit generally enters the active state on its commercial date.

Reserve Shutdown Hours - RSH

Total number of hours the unit was available for service but not electrically connected to the transmission system for economic reasons.

Service Hours - SH

Total number of hours a unit was electrically connected to the transmission system.

Scheduled Outage Hours - SOH

Sum of all hours experienced during Planned Outages and Maintenance Outages plus any Scheduled Outage Extensions associated with those outages.

Unplanned Derated Hours - UDH

Sum of all hours experienced during Forced Deratings and Maintenance Deratings plus any Scheduled Derating Extensions of any Maintenance Deratings.

Unplanned Outage Hours - UOH

Sum of all hours experienced during Forced Outages and Maintenance Outages plus any Scheduled Outage Extensions of any Maintenance Outages.