

## Lee R. Pedowicz

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**From:** Small, Angela <Angela.Small@naes.com>  
**Sent:** Monday, October 21, 2013 11:29 AM  
**To:** Lee R. Pedowicz  
**Subject:** Request for Clarification for PRC-002-NPCC-01

Thank you for speaking with me on the phone: This is my formal request for clarification to the applicability of PRC-002-NPCC-01 and the definition of “control scheme” as stated in Requirement 1 – R1.1. – Be provided at generating units above 50 MVA Nameplate Rating or a series of generating units utilizing a “control scheme” such that the loss of 1 unit results in a loss of greater than 50 MVA Nameplate capacity.

Is a control scheme – also a protection scheme in this application?

We have 46.5 MVA generators – each with a generator breaker – these generators use a dual winding transformer – we do not own or operator the high side breaker after the transformer – the only equipment we have is a disconnect switch to separate the utilities.

Our control scheme – we can open and close each generator separately – we can operator one generator without the other in service. So in using our “control scheme” we can only drop less than 50 MVA. The second part of this is we do own a protection scheme - - which is a differential relay across the transformer – which can drop both generators with operation – such as a total of 93 MVA.

So my clarification – in losing at this standard – Is a “Control Scheme” and a Protection Scheme” one in the same – or was the intent different.

Thanks, Angela Small

Angela Small  
Senior Reliability Specialist  
NAES Corporation  
(425) 270-6393



NORTHEAST POWER COORDINATING COUNCIL, INC.  
1040 AVE. OF THE AMERICAS, NEW YORK, NY 10018 (212) 840-1070 FAX (212) 302-2782

Draft December 10, 2013

Mr. Guy Zito  
NPCC Assistant Vice President-Standards

**Re: TFSP Response to Request for Clarification by NAES Corporation: PRC-002-NPCC-1, Requirement R1.1**

Dear Mr. Zito:

As per Mr. Pedowicz's October 21, 2013 email message to the NPCC Task Force on System Protection (TFSP) and in accordance with the NPCC's Regional Reliability Standard Development Procedure, the Task Force on System Protection has reviewed NAES Corporation's request for "clarification to the applicability of PRC-002-NPCC-01 and the definition of "control scheme" as stated in Requirement 1 – R1.1. – Be provided at generating units above 50 MVA Nameplate Rating or a series of generating units utilizing a "control scheme" such that the loss of 1 unit results in a loss of greater than 50 MVA Nameplate capacity. Is a control scheme – also a protection scheme in this application?

We (NAES) have 46.5 MVA generators – each with a generator breaker – these generators use a dual winding transformer – we do not own or operator the high side breaker after the transformer – the only equipment we have is a disconnect switch to separate the utilities.

Our control scheme – we can open and close each generator separately – we can operator one generator without the other in service. So in using our "control scheme" we can only drop less than 50 MVA. The second part of this is we do own a protection scheme - - which is a differential relay across the transformer – which can drop both generators with operation – such as a total of 93 MVA."

A response by TFSP to NAES's request is provided below.

"R1 requires Sequence of Events monitoring of both the transformer differential protection system and the status of the high-side breaker of the transformer. In your specific case, TFSP agrees that NAES's "control scheme" is separate from the protection scheme as described above and this control scheme itself would not be subject to the requirement of the standard."

Let me know if you need further assistance on this matter.

Sincerely,

*Paul*



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Paul DiFilippo, Chairman  
Task Force on System Protection

cc: Members, Task Force on System Protection  
Mr. Lee Pedowicz – NPCC Regional Standard Process Manager  
Mr. Philip Fedora - Assistant Vice President of Reliability Services