Lee R. Pedowicz

From:	Kevin Caldwell <kcaldwell@kleenenergyct.com>
Sent:	Tuesday, September 17, 2013 9:56 AM
To:	Lee R. Pedowicz
Subject:	PRC-002-NPCC-01 R16 Clarification

Good morning Lee, thanks for taking the time to speak with me regarding PRC-002. As per our discussion I would like to request a clarification of R16.1 which states that data files shall be capable of being viewed, read, and analyzed with a generic COMTRADE analysis tool as per the latest revision of IEEE Standard C37.111. As discussed I think R16.1 is more specific to the oscillography data which would likely have a combination of analog and binary data embedded in a data file which could be used to analyze an event. Many fault recorders and protective relays also provide a separate event file which is simply a binary indication of which function operated with an associated time stamp. I think this data should be allowed to be transferred to NPCC in common formats such as .txt, .csv, or .xls since this information has no real value in a COMTRADE analysis tool without the accompanying analog data.

If an entity was to be under the 50MVA threshold which would require fault recording capability it could be said that they would only need to provide SOE data in the event of a disturbance. In this case I think it would be reasonable to state that the event data (SOE) they would provide would only need to be compatible with standard formats (.txt, .csv, or .xls)

Regards,

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October 4, 2013

Mr. Guy Zito
NPCC Assistant Vice President-Standards

Re: TFSP Response to Request for Clarification by NAES Corporation-Kleen Energy Systems, LLC: PRC-002-NPCC-1, Requirement R16.1

Dear Mr. Zito:

As per Mr. Pedowicz's September 17, 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 the following request for clarification by NAES Corporation-Kleen Energy Systems, LLC.

> "I would like to request a clarification of R16.1 which states that data files shall be capable of being viewed, read, and analyzed with a generic COMTRADE analysis tool as per the latest revision of IEEE Standard C37.111. As discussed I think R16.1 is more specific to the oscillography data which would likely have a combination of analog and binary data embedded in a data file which could be used to analyze an event. Many fault recorders and protective relays also provide a separate event file which is simply a binary indication of which function operated with an associated time stamp. I think this data should be allowed to be transferred to NPCC in common formats such as .txt, .csv, or .xls since this information has no real value in a COMTRADE analysis tool without the accompanying analog data.
>
> If an entity was to be under the 50MVA threshold which would require fault recording capability it could be said that they would only need to provide SOE data in the event of a disturbance. In this case I think it would be reasonable to state that the event data (SOE) they would provide would only need to be compatible with standard formats (.txt, .csv, or .xls)"

A response by TFSP to NAES Corporation-Kleen Energy Systems, LLC's request is provided below.

> TFSP agrees that R16.1 is applicable to Digital Fault Recording (DFR) and Dynamic Disturbance Recording (DDR) data in regards to the COMTRADE data format. It would be sufficient to provide Sequence of Event (SOE) recording data in a commonly used format such as txt, csv, or xls.

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

Sincerely,

Paul

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