

WG14 Part 9 Issues - CIM Issues #6296

New "Transformer Compensated" Quality Code needed in Part 9

03/21/2023 04:03 PM - David Haynes

Status:	New	
Priority:	Normal	
Target version:		
Author/Contact Info:	dhaynes@hubbell.com	Standard(s): 61968-9
Base Release:		Version: 4
Solution to be Applied To:		Clause: Annex D
Solution Version:		Sub-Clause:
Solution Applied By:		Paragraph:
Completion Date:		Table:
CIM Keywords:	61968-Metering	Originally Closed in Version:
Breaking Change:	No	Origination Date: 03/17/2023
Breaking Change Description:		Origination ID:
CIM Impacted Groups:	WG14	Originally Assigned To:
Requestor:	David Haynes	
Description It is possible for a meter to be connected in primary fashion to the distribution voltage (above the service transformer.) When this happens, transformer losses are not reflected in the measurement. When large amounts of power flow, the 1-2% loss through the transformer accumulates to a considerable amount. Who pays for it? It is an unmetered loss. Usually this can be accounted for by an MDMS, but some high-end meters also offer a transformer loss compensation function. When active, all power measurements are adjusted by the meter. They look like any other measurement, but the compensation has already been applied. We missed this usecase in our original analysis. The Part 9 team should add a new quality code that provides a new categorization of "compensated" and a new index of "transformer loss." This code could then markup the data and help prevent the compensation from being applied twice.		
Proposed Solution Extend existing quality code enumerations by adding new enumerations to cover the need. We have a code for "estimated" but this is not an "estimated" reading. It is an adjusted reading. The term in use is "compensated"		
Release Notes This issue was originally raised in the UCAlug sharepoint as a specialized UOM, but this was rejected. The better solution is to allow any measurement to indicate with a QC that it has been adjusted / compensated. The UCAlug Part 9 team entry is rejected in order to remove it from the sharepoint, but the issue lives on here in redmine.		
Related issues: Related to WG14 Part 9 Issues - CIM Issues #6322: New "Low Loss Potential" Qu... <div>New</div>		

History

#1 - 04/20/2023 10:49 AM - David Haynes

- Related to CIM Issues #6322: New "Low Loss Potential" Quality Code needed in Part 9 added

#2 - 05/31/2023 07:19 PM - David Haynes

- Release Notes updated

#3 - 06/01/2023 08:08 AM - David Haynes

- Subject changed from New Quality Code needed in Part 9 to New "transformer compensated" Quality Code needed in Part 9

- Proposed Solution updated

#4 - 06/01/2023 08:10 AM - David Haynes

- Subject changed from New "transformer compensated" Quality Code needed in Part 9 to New "Transformer Compensated" Quality Code needed in Part 9