

SAMPLE PROJECT - ELECTRICAL EQUIPMENT

Transformer.

Contract Documents		PO Documents	Vendor	Contractual Comment.	Comment.	
	PART 1 - GENERAL					
1.2	Summary					
A.1	Distribution transformers.	Complied in PO document.	--	--	--	
1.4	Quality Assurance					
A	Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.	Complied in PO document.	--	--	--	
B	Comply with IEEE C 57.12.91.	Complied in PO document.	Standard units are UL listed and are designed in accordance with ANSI NEMA(ST 20) and IEEE standards.	Complied.	--	
C	Energy-Efficient Transformers Rated 15 kVA and Larger: Certified as meeting NEMA TP1, Class 1 efficiency levels when tested according to NEMA TP 2.	Complied in PO document. Referenced in PO document : TP1 design.	Energy efficiency NEMA TP 1 -2002.	Complied.	--	
	PART 2 - PRODUCT					
2.1	Manufacturers.					
	Such as: Cutler-Hammer, GE Electrical Distribution & Control., MagneTek., Siemens Energy & Automation, Inc., Square D/Groupe Schneider.	Complied in PO document. Referenced in PO document : Siemens Energy & Automation, Inc.	Siemens Energy & Automation, Inc	Complied.	--	
2.2	Materials.					
A	Description	Factory-assembled and - tested, air-cooled units for 60-Hz service.	Complied in PO document.	NEMA class ANN Dry type Transformer. 60 Hz.	Complied.	--

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B	Cores	Grain-oriented, non-aging silicon steel.	Complied in PO document.	High quality non aging electrical grade core steel.	Complied.	--
C	Coils	Continuous windings without splices, except for taps.	Complied in PO document.	Not indicated.	Not Referenced.	--
1	Internal Coil Connections	Brazed or pressure type.	Complied in PO document.	Not indicated.	Not Referenced.	--
2	Coil Material	Copper.	Complied in PO document. Referenced in PO: Copper.	Copper.	Complied.	--
2.3	Distribution transformers.					
A	Comply with NEMA ST 20, and list and label as complying with UL 1561.		Complied in PO document.	Standard units are UL listed and are designed in accordance with ANSI NEMA(ST 20) and IEEE standards.	Complied.	--
B	Cores	One leg per phase.	Complied in PO document.	One conductor per phase.	Complied.	--
C	Enclosure	Ventilated, NEMA 250, Type 2.	Complied in PO document.	NEMA 1.	Not Complied.	--
D	Indoor Transformer Enclosure Finish	Comply with NEMA 250 for "Indoor Corrosion Protection."	Complied in PO document.	Not indicated.	Not Referenced.	--
1	Finish Color	Gray.	Complied in PO document.	ANSI 61 Grey.	Complied.	--
E	Insulation Class					
	220 deg C, UL-component-recognized insulation system with a maximum of 115 deg C rise above 40 deg C ambient temperature.		Complied in PO document. Referenced in PO document : Temperature rise of 115°C.	220°C temp Class, 115°C.	Complied.	--

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F	Taps for Transformers 25 kVA and Larger	Two 2.5 percent taps above and four 2.5 percent taps below normal full capacity.	Complied in PO document.	2.5% 2FCAN, 4FCBN.	Complied.	--
G	Wall Brackets	Manufacturer's standard brackets.	Complied in PO document.	Provided.	Complied.	--
H	Sound-Level Requirements					
	Maximum sound levels, when factory tested according to IEEE C57.12.91, as follows.	Complied in PO document.	Standard units are UL listed and are designed in accordance with ANSI NEMA(ST 20) and IEEE standards.	Complied.	--	
2	30 to 50kVA	50 db	Complied in PO document.	45dB.	Complied.	--
3	51 to 150 kVA	50 db	Complied in PO document.	50dB.	Complied.	--
2.4	Source Quality Control.					
A	Test and inspect transformers according to IEEE C57.12.91.	Deviation in PO document: Testing on similar transformer.	Not indicated.	Not Referenced.	--	
B	Factory Sound-Level Tests: Conduct sound-level tests on equipment for this Project.	Deviation in PO document: Testing on similar transformer.	Not indicated.	Not Referenced.	--	