

LIST OF MATERIALS
Acceptable for Use on Systems
of USDA Rural Development
Electrification Borrowers

United States Department of Agriculture
Rural Development Utilities Programs
Electric Programs

Supplement to IP 202-1
July through September 2009

DISCLAIMER

*Every effort has been made to ensure the accuracy of this document.
However, in case of discrepancies, records of Technical Standards
Committee "A" are the authoritative source.*

U gn - Enclosures, equipment

Applicable Specifications: "RUS Specifications for Equipment Enclosures," U-4

<u>Manufacturer</u>	<u>Catalog No.</u>
<u>Durham</u>	AT-42 Series (dead-front) AT-54 Series (dead-front)
<u>Elliott</u>	EPM-PTS (dead-front)
<u>Hoffman Enclosures, Inc.</u>	UJ Series
<u>Malton Electric</u>	ME Series (dead-front) MEV Series (dead-front)
<u>Maysteel</u>	EL100 (dead-front)
<u>Nordic</u>	ND-28 and ND-33

NOTE:

1. The above enclosures are available with various multipoint terminations. The owner should specify termination points to be provided.
2. These enclosures have been certified as meeting the requirements of ANSI C57.12.28. A copy of the certification is available from the manufacturer.

an - Transformers, Power
Three-Phase, Step-Down
for Distribution Substation Use

Conditions for Acceptance: "E" - To obtain experience
"T" - Manufacturer to furnish RUS with satisfactory test results
(Only performance specifications have been submitted)

Manufacturer	Primary Voltage - kV	Nominal OA Capacity	
		750 to 3750 kVA	5 to 30 MVA
<u>Delta Star</u>	34.4	E	E
	43.8	E	E
	67.0	E	E
	115	-	E
	138	-	T

Transformers 5 MVA and larger also accepted as load tap changing transformers using Seimens-Allis Types TLS and TLH-21 load tap changers.

<u>Ferranti-Packard</u>	34.4	E	T
	67.0	T	E
	115	-	E

<u>GE-Prolec</u>	67	-	E
	115	-	E
	138	-	E

Transformers 5 MVA and larger also accepted as load tap changing transformers using Reinhausen type RMV-II, Reinhausen type RMV-A, and ABB type UZE load tap changers.

<u>Howard Industries</u>	115	-	E
	138	-	E

<u>Hyundai Heavy Industries Co., Ltd.</u>	115	-	E
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Transformers 5 MVA and larger also accepted as load tap changing transformers using ABB type UZE and Reinhausen type RMV-II load tap changers.

<u>Industrias IEM, S.A. de C.V</u>	115	-	E
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<u>MGM</u>	34.4	E	T
	43.8	E	T
	67.0	T	E

Transformers 5 MVA and larger also accepted as load tap changing transformers using ABB Types UTS-A and UTT-B load tap changers.

<u>Pauwels Transformers</u>	34.4	-	E
	67.0	-	E
	115	-	E

<u>Uptegraff</u>	34.4	T	E
	43.8	T	E

U ae - Arresters, Surge

(Shielded for Underground System Pad-Mounted Equipment)

CONDITION OF ACCEPTANCE: To Obtain Experience

ELBOW ARRESTERS

Manufacturer	Type	Ratings, kV	Type	Interface
Cooper Power Systems	M.O.V.E.	9/10	MOV	15 kV
	M.O.V.E.	18	MOV	25 kV
	VariGAP	9/10	(1)	15 kV
	VariGAP	18	(1)	25 kV
	Posi-Break M.O.V.E.	3-21	MOV	25 kV
	VariGAP Posi-Break M.O.V.E.	9-15	MOV	25 kV
Elastimold ESNA	167 ESA-10	10	MOV	15 kV
	273 ESA-18	18	MOV	25 kV
Hubbell	PDE	9,10	MOV	15kV
	PDE	18	MOV	25kV
Joslyn	ZE	10	MOV	15 kV
		18	MOV	25 kV

PARKING STAND ARRESTERS

Manufacturer	Type	Ratings, kV	Type	Interface
Cooper Power Systems	MOV PSA	9/10	MOV	15 kV
	MOV PSA	18	MOV	25 kV
	MOV VariGAP PSA	9/10	(1)	15 kV
	MOV VariGAP PSA	18	(1)	25 kV
Elastimold ESNA	167 PSA-10	10	MOV	15 kV
	273 PSA-18	18	MOV	25 kV

BUSHING ARRESTERS

Manufacturer	Type	Ratings, kV	Type	Interface
Elastimold ESNA	167 BSA-10	10	MOV	15 kV
	273 BSA-18	18	MOV	25 kV

(1) MOV Type (Internally Gapped)