

CenterPoint Energy SPECIFICATION FOR CUSTOMER 138 KV SUBSTATION DESIGN

USER: BWHILLIAMS\NEWMPB FILE: 000424 TIME: 10:14:43 AM DATE: Mon, Aug 8, 2005

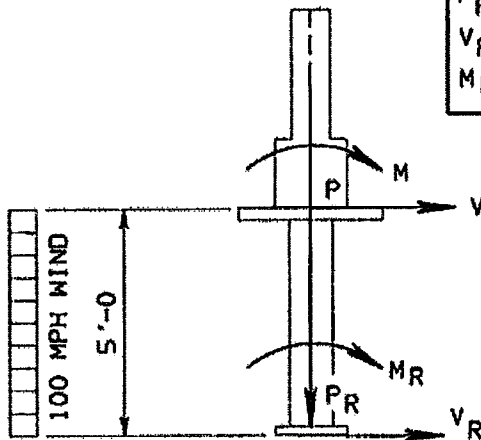
DESIGN CONDITIONS:

1. LIMIT INSTRUMENT MOUNTING BOLT SPACING TO NO LESS THAN 15" CENTER TO CENTER.
2. SHOULD NOT EXCEED THESE VALUES:

P = 4.7 KIPS
V = 0.9 KIPS
M = 66.0 INCH KIPS

FOUNDATION LOADS

$P_R = 5.0$ KIPS
 $V_R = 1.3$ KIPS
 $M_R = 130.0$ INCH KIPS



NOTE:

CUSTOMER MUST MAINTAIN ALL NESC PHASE TO GROUND AND PHASE TO PHASE CLEARANCES.

5'-0 HEIGHT
HEAVY DUTY

DESIGN CRITERIA
138KV STANDARD
INSTRUMENT TRANSFORMER STAND
CENTERPOINT ENERGY, INC.
HOUSTON, TEXAS

DATE: 1-24-94	REV: REX	SCALE: NTS
DATE: 1-24-94	REV: REX	SCALE: 3/4" = 1'-0"
CHECKED:		DATE: 10/19/05
APPROVED:		DATE: 10/19/05

NO.	DATE	JOB NO.	REVISION	BY	CHK	QTR	APP
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Rev 14 Date 7-22-2005 Items Revised 4000A and other updates

Specification No. 007-231-14

Page 30 File CNP_007-231-14rev14_7-22-2005 Addendum 5-8-2006.doc

CenterPoint Energy SPECIFICATION FOR CUSTOMER 138 KV SUBSTATION DESIGN

USER: R61111AM51 NEWMPR FILE: 000x425 TIME: 10:14:44 AM DATE: Mon, Aug 8, 2005

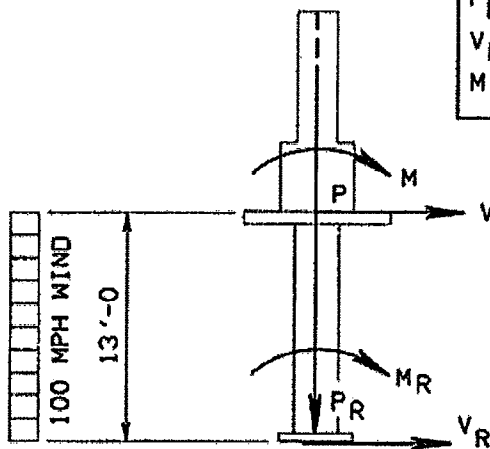
DESIGN CONDITIONS:

1. LIMIT INSTRUMENT MOUNTING BOLT SPACING TO NO LESS THAN 15" CENTER TO CENTER.
2. SHOULD NOT EXCEED THESE VALUES:

P = 4.7 KIPS
V = 1.0 KIPS
M = 74.0 INCH KIPS

FOUNDATION LOADS

P_R = 5.4 KIPS
V_R = 2.0 KIPS
M_R = 307.0 INCH KIPS



NOTE:

CUSTOMER MUST MAINTAIN ALL NESC PHASE TO GROUND AND PHASE TO PHASE CLEARANCES.

13'-0 HEIGHT
HEAVY DUTY

DESIGN CRITERIA

138KV STANDARD
INSTRUMENT TRANSFORMER STAND
CENTERPOINT ENERGY, INC.
HOUSTON, TEXAS

DRWN 1-24-96	REK	SCALE NTS
DESIGN 1-24-96	REK	SCALE 2 OF 4 SHEETS
CHECKED		DRAWING NUMBER
APPROVED		1171190.06

NO.	DATE	JOB NO.	REVISION	BY	CHK	CON	APP
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Rev 14 Date 7-22-2005 Items Revised 4000A and other updates

Specification No. 007-231-14

Page 31

File CNP_007-231-14rev14_7-22-2005 Addendum 5-8-2006.doc

<u>Rev</u>	<u>Date</u>	<u>Items Revised</u>	<u>Specification No.</u>	<u>Page</u>	<u>File</u>
14	7-22-2005	4000A and other updates	007-231-14	32	CNP_007-231-14rev14_7-22-2005 Addendum 5-8-2006.doc



