

ANALYSIS OF VALMONT INDUSTRIES LIGHTING STRUCTURE
 IN ACCORDANCE WITH AASHTO-2009 RQMTS. (FINAL DEFLECTED POSITION)
 BY BNS 5/12/2014 VERSION Fuse 1.10.0.540 32-bit

SUBJECT: VERMONT, 42' MAST ARM & 16' LUM ARM

FOLDER: VTTRAF FILE: 4216

GROUP IV FATIGUE ANALYSIS OF SIGNAL AND SIGN / POLE CONNECTION: ARM

COMPONENT	LOAD	STRESS RATIO	STRESS CAT.	STRESS (KSI)
BUILT-UP BOX GUSSET	NATURAL WIND GUST	0.76	E'	1.98
	TRUCK-INDUCED GUST	0.26	E'	0.67
POLE CROSS SECTION	TRUCK-INDUCED GUST	0.68	E	3.06
	NATURAL WIND GUST	0.57	D	3.97
SIMPLEX BOLT	TRUCK-INDUCED GUST	0.29	D	2.03
	NATURAL WIND GUST			