

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, 34' & 31' MAST ARMS W/12' LUM ARM

FOLDER: VTTRAF FILE: 3431L12

GROUP IV FATIGUE ANALYSIS OF ARMS:

ANAL. LOCATION		LOAD CASE =====	STRESS RATIO	STRESS CAT.	BENDING STRESS KSI	SHEAR STRESS KSI
ARM TYPE	ARM NO. SITE					
SIG	1	NATURAL WIND GUST	1.00	E	4.48	0.11
SIG	1	TRUCK-INDUCED GUST	0.50	E	2.25	0.05
SIG	2	NATURAL WIND GUST	0.95	E	4.29	0.11
SIG	2	TRUCK-INDUCED GUST	0.49	E	2.21	0.05