

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	BENDING	SHEAR
ARM	ARM		MOMENT	FORCE
TYPE NO.	SITE		(FT-LBS)	(LBS)
SIG 1	BASE	NATURAL WIND GUST	6725	282
SIG 1	BASE	TRUCK-INDUCED GUST	3382	160
SIG 2	BASE	NATURAL WIND GUST	5886	268
SIG 2	BASE	TRUCK-INDUCED GUST	3033	156