

ANALYSIS OF VALMONT INDUSTRIES LIGHTING STRUCTURE
IN ACCORDANCE WITH AASHTO-1994 RQMTS. (FINAL DEFLECTED POSITION)
BY MLS 03/31/2010 VERSION Fuse 1.9.0.363

SUBJECT: MASSACHUSETTS, 20' MAST ARM (WORST CASE LOAD)

FOLDER: MATR335 FILE: 20

STRESSES WITH WIND ACTING PERPENDICULAR TO EACH ARM
=====

ANAL. LOCATION			GROUP LOAD	COMB. STR.	APPLIED STRESS (KSI)			ALLOW. STRESS (KSI)		
ARM	ARM				=====			=====		
TYPE	NO.	SITE	NO.	RATIO	AXIAL	BEND.	SHEAR	AXIAL	BEND.	SHEAR
SIG	1	BASE	1	0.27	0.00	9.97	0.20	33.00	36.30	18.15
SIG	1	BASE	2	0.72	0.03	36.38	0.66	33.00	50.82	25.41
SIG	1	BASE	3	0.46	0.01	23.59	0.45	33.00	50.82	25.41