

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

ELEVATION OF FOUNDATION ABOVE SURROUNDING TERRAIN = 0.0 (FT)
 STEPS INCLUDED ? NO

RECURRENCE INTERVAL = 50 SPECIAL FATIGUE WIND SPEEDS
 FATIGUE CATEGORY = 2

TRUCK GUST: YES GALLOPING : NO TRUCK GUST = 45 MPH
 WIND VELOCITY = 90 MPH CRITERIA: AASHTO-2009
 AASHTO ICE INCLUDED ? YES

DESCRIPTION OF EPA LOADING *

POSITION OF LOAD	MOUNTING HEIGHT** (FT)	CENTROID HEIGHT** (FT)	DISTANCE TO CENT. FROM POLE (FT)	WEIGHT (LBS)	EFFECTIVE PROJECTED AREA SQ. (FT)
MAST ARM 1	20.00	27.00	37.00	50	2.00

DESCRIPTION OF SIGNAL LOADING *

POSITION OF SIGNAL	MOUNTING HEIGHT** (FT)	CENTROID HEIGHT** (FT)	DISTANCE TO CENT. FROM POLE (FT)	SIGNAL WEIGHT (LBS)	SIGNAL VERTICAL PLANE (FT^2)	PROJECTED AREA HORIZONTAL PLANE (FT^2)
ARM 1	20.00	20.00	42.00	96	13.72	3.60
ARM 1	20.00	20.00	42.00	70	8.67	1.80
ARM 1	20.00	20.00	32.00	70	8.67	1.80

DESCRIPTION OF LUMINAIRE *

POSITION	SHAPE	MOUNTING** HEIGHT (FT)	CENTROID** HEIGHT (FT)	DISTANCE TO CENT. FROM POLE (FT)	WEIGHT (LBS)	PROJECTED AREA (FT^2)
LUMINAIRE ARM 1	ROUND	26.50	30.00	17.00	55	3.30