

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

FOLDER: VTTRAF FILE: 3431L12

FORCES AND MOMENTS WITH WIND ACTING PERPENDICULAR TO EACH ARM

| ARM TYPE | ARM NO. | ANALYSIS LOCATION | GROUP LOAD NO. | FORCES (LBS) | | | MOMENTS (FT-LBS) | | |
|-------------|------------|----------------------|----------------------|--------------|------|------|------------------|-------|-------|
| | | | | AXIAL | FY | FZ | TORSION | MY | MZ |
| SIGNAL 1 | 1 | BASE | 1 | 20 | 15 | 891 | 6 | 17778 | 296 |
| SIGNAL 1 | 1 | BASE | 2 | 68 | 1164 | 845 | 330 | 16577 | 30249 |
| SIGNAL 1 | 1 | BASE | 3 | 93 | 824 | 1588 | 199 | 35295 | 19366 |
| SIGNAL 2 | 2 | BASE | 1 | 14 | 17 | 810 | 6 | 14886 | 315 |
| SIGNAL 2 | 2 | BASE | 2 | 53 | 1140 | 763 | 328 | 13770 | 26975 |
| SIGNAL 2 | 2 | BASE | 3 | 70 | 790 | 1476 | 199 | 30247 | 17100 |
| LUMIN. 1 | 1 | TOP BASE | 1 | 571 | 2 | 9 | 0 | 41 | 12 |
| LUMIN. 1 | 1 | TOP BASE | 2 | 563 | 101 | 9 | 0 | 43 | 670 |
| LUMIN. 1 | 1 | TOP BASE | 3 | 935 | 79 | 19 | 0 | 77 | 561 |
| LUMIN. 1 | 1 | BOT BASE | 1 | 623 | 1 | 4 | 1 | 30 | 9 |
| LUMIN. 1 | 1 | BOT BASE | 2 | 606 | 62 | 4 | 53 | 32 | 517 |
| LUMIN. 1 | 1 | BOT BASE | 3 | 1008 | 32 | 11 | 50 | 60 | 405 |