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PHILADELPHIA ELECTRIC COMPANY

LIMERICK GENERATING STATION

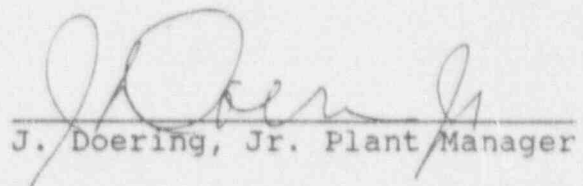
DOCKET NO. 50-352 (Unit 1)

DOCKET NO. 50-353 (Unit 2)

Tower No. 1
Joint Frequency Distributions of
Wind Speed and Direction by
Atmospheric Stability Class
1991
Report No. 7

Submitted to
The United States Regulatory Commission
Pursuant to
Facility Operating License NPF-39 (Unit 1)
and NPF-85 (Unit 2)

Preparation Directed by:
G. M. Leitch, Vice President
Limerick Generating Station


J. Doering, Jr. Plant Manager

9203040328 920228
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R PDR

LGS - MIXED-MODE RELEASE REACTOR ENCLOSURE (SOUTH VENT) 1991

NO DECAY, UNDEPLETED

CORRECTED FOR OPEN TERRAIN RECIRCULATION

CORRECTED FOR OPEN TERRAIN RECIRCULATION USING SPECIAL TERRAIN ADJUSTMENT FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.700E-07	2.883E-07	1.565E-07	1.114E-07	7.150E-08	5.222E-08	4.059E-08	3.279E-08	2.723E-08	2.310E-08	1.993E-08
SSW	6.145E-07	2.882E-07	1.220E-07	8.855E-08	5.887E-08	4.396E-08	3.470E-08	2.837E-08	2.379E-08	2.034E-08	1.767E-08
SW	5.731E-07	1.949E-07	1.180E-07	8.542E-08	5.844E-08	4.400E-08	3.573E-08	2.948E-08	2.488E-08	2.138E-08	1.863E-08
WSW	9.430E-07	3.308E-07	1.993E-07	1.466E-07	9.838E-08	7.361E-08	5.805E-08	4.734E-08	3.958E-08	3.374E-08	2.922E-08
W	1.331E-06	4.496E-07	2.561E-07	1.800E-07	1.140E-07	8.290E-08	6.446E-08	5.215E-08	4.341E-08	3.692E-08	3.193E-08
WNW	6.944E-07	2.297E-07	1.324E-07	9.475E-08	6.282E-08	4.713E-08	3.757E-08	3.097E-08	2.616E-08	2.250E-08	1.965E-08
NW	6.744E-07	2.821E-07	1.599E-07	1.140E-07	7.675E-08	5.903E-08	4.783E-08	3.988E-08	3.395E-08	2.938E-08	2.578E-08
NNW	1.010E-06	3.324E-07	1.966E-07	1.435E-07	9.627E-08	7.260E-08	5.787E-08	4.772E-08	4.033E-08	3.473E-08	3.037E-08
N	2.309E-06	7.330E-07	4.164E-07	2.914E-07	1.854E-07	1.365E-07	1.077E-07	8.832E-08	7.441E-08	6.388E-08	5.590E-08
NNE	3.744E-06	1.180E-06	6.591E-07	4.615E-07	2.953E-07	2.186E-07	1.734E-07	1.430E-07	1.212E-07	1.047E-07	9.199E-08
NE	4.111E-06	1.267E-06	6.978E-07	4.928E-07	3.230E-07	2.444E-07	1.967E-07	1.639E-07	1.400E-07	1.218E-07	1.075E-07
ENE	3.079E-06	9.863E-07	6.019E-07	4.484E-07	3.050E-07	2.305E-07	1.843E-07	1.525E-07	1.294E-07	1.119E-07	9.826E-08
E	3.789E-06	1.241E-06	7.368E-07	5.302E-07	3.439E-07	2.528E-07	1.984E-07	1.621E-07	1.362E-07	1.169E-07	1.021E-07
ESE	4.870E-06	1.501E-06	8.811E-07	5.958E-07	3.544E-07	2.477E-07	1.881E-07	1.500E-07	1.237E-07	1.046E-07	9.014E-08
SE	2.117E-06	7.101E-07	3.997E-07	2.726E-07	1.837E-07	1.147E-07	8.702E-08	6.926E-08	5.699E-08	4.807E-08	4.132E-08
SSE	1.223E-06	4.113E-07	2.288E-07	1.572E-07	9.621E-08	6.844E-08	5.244E-08	4.202E-08	3.474E-08	2.940E-08	2.533E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.745E-08	1.034E-08	7.070E-09	4.124E-09	2.815E-09	2.092E-09	1.642E-09	1.339E-09	1.122E-09	9.600E-10	8.354E-10
SSW	1.555E-08	9.405E-09	6.512E-09	3.848E-09	2.645E-09	1.974E-09	1.554E-09	1.269E-09	1.065E-09	9.126E-10	7.948E-10
SW	1.644E-08	9.991E-09	6.932E-09	4.105E-09	2.825E-09	2.111E-09	1.604E-09	1.360E-09	1.142E-09	9.795E-10	8.537E-10
WSW	2.565E-08	1.530E-08	1.050E-08	6.129E-09	4.180E-09	3.104E-09	2.433E-09	1.981E-09	1.658E-09	1.418E-09	1.233E-09
W	2.801E-08	1.677E-08	1.157E-08	6.841E-09	4.714E-09	3.532E-09	2.791E-09	2.289E-09	1.928E-09	1.657E-09	1.448E-09
WNW	1.737E-08	1.068E-08	7.479E-09	4.408E-09	3.132E-09	2.383E-09	1.76E-09	1.544E-09	1.305E-09	1.124E-09	9.844E-10
NW	2.288E-08	1.421E-08	1.001E-08	6.051E-09	4.223E-09	3.192E-09	2.539E-09	2.092E-09	1.769E-09	1.526E-09	1.337E-09
NNW	2.689E-08	1.664E-08	1.173E-08	7.124E-09	4.992E-09	3.784E-09	3.018E-09	2.489E-09	2.108E-09	1.820E-09	1.597E-09
N	4.948E-08	3.065E-08	2.168E-08	1.325E-08	9.335E-09	7.111E-09	5.693E-09	4.718E-09	4.009E-09	3.474E-09	3.056E-09
NNE	8.184E-08	5.162E-08	3.725E-08	2.328E-08	1.667E-08	1.285E-08	1.036E-08	8.662E-09	7.406E-09	6.449E-09	5.698E-09
NE	9.611E-08	6.178E-08	4.482E-08	2.833E-08	2.041E-08	1.580E-08	1.281E-08	1.072E-08	9.198E-09	8.019E-09	7.098E-09
ENE	8.742E-08	5.529E-08	3.987E-08	2.472E-08	1.764E-08	1.357E-08	1.094E-08	9.116E-09	7.784E-09	6.771E-09	5.977E-09
E	9.034E-08	5.617E-08	3.989E-08	2.454E-08	1.738E-08	1.328E-08	1.066E-08	8.855E-09	7.538E-09	6.541E-09	5.761E-09
ESE	7.891E-08	4.718E-08	3.288E-08	1.948E-08	1.353E-08	1.021E-08	8.108E-09	6.677E-09	5.645E-09	4.869E-09	4.267E-09
SE	3.609E-08	2.137E-08	1.468E-08	8.851E-09	5.961E-09	4.467E-09	3.538E-09	2.894E-09	2.438E-09	2.096E-09	1.831E-09
SSE	2.217E-08	1.317E-08	9.056E-09	5.326E-09	3.659E-09	2.735E-09	2.157E-09	1.765E-09	1.484E-09	1.274E-09	1.112E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES

DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.613E-07	7.179E-08	4.057E-08	2.725E-08	1.995E-08	1.047E-08	4.198E-09	2.105E-09	1.343E-09	9.618E-10
SSW	1.283E-07	5.884E-08	3.484E-08	2.378E-08	1.768E-08	9.486E-09	3.905E-09	1.985E-09	1.273E-09	9.142E-10
SW	1.199E-07	5.828E-08	3.569E-08	2.488E-08	1.863E-08	1.006E-08	4.164E-09	2.122E-09	1.364E-09	9.811E-10
WSW	2.051E-07	9.810E-08	5.792E-08	3.957E-08	2.924E-08	1.547E-08	6.233E-09	3.122E-09	1.987E-09	1.421E-09
W	2.652E-07	1.148E-07	6.446E-08	4.343E-08	3.196E-08	1.696E-08	6.947E-09	3.551E-09	2.295E-09	1.660E-09
WNW	1.373E-07	6.288E-08	3.748E-08	2.614E-08	1.965E-08	1.074E-08	4.553E-09	2.373E-09	1.548E-09	1.126E-09
NW	1.667E-07	7.715E-08	4.764E-08	3.390E-08	2.577E-08	1.427E-08	6.118E-09	3.206E-09	2.097E-09	1.528E-09
NNW	2.032E-07	9.624E-08	5.774E-08	4.031E-08	3.037E-08	1.674E-08	7.201E-09	3.799E-09	2.494E-09	1.823E-09
N	4.312E-07	1.872E-07	1.076E-07	7.441E-08	5.592E-08	3.085E-08	1.338E-08	7.137E-09	4.727E-09	3.478E-09
NNE	6.869E-07	2.981E-07	1.733E-07	1.211E-07	9.201E-08	5.202E-08	2.345E-08	1.288E-08	8.674E-09	6.455E-09
NE	7.332E-07	3.260E-07	1.963E-07	1.309E-07	1.075E-07	6.187E-08	2.848E-08	1.584E-08	1.074E-08	8.025E-09
ENE	6.191E-07	3.037E-07	1.839E-07	1.273E-07	9.828E-08	5.549E-08	2.490E-08	1.360E-08	9.129E-09	6.777E-09
E	7.570E-07	3.448E-07	1.984E-07	1.363E-07	1.021E-07	5.653E-08	2.477E-08	1.333E-08	8.870E-09	6.547E-09
ESE	9.120E-07	3.606E-07	1.888E-07	1.240E-07	9.027E-08	4.779E-08	1.977E-08	1.025E-08	6.693E-09	4.876E-09
SE	4.122E-07	1.661E-07	8.730E-08	5.710E-08	4.138E-08	2.167E-08	8.796E-09	4.490E-09	2.902E-09	2.099E-09
SSE	2.375E-07	9.741E-08	5.254E-08	3.479E-08	2.537E-08	1.334E-08	5.414E-09	2.750E-09	1.770E-09	1.276E-09

LGS - MIXED-MODE RELEASE REACTOR ENCLOSURE (SOUTH VENT) 1991
2.260 DAY DECAY, UNDEPLETED

CORRECTED FOR OPEN TERRAIN RECIRCULATION

CORRECTED FOR OPEN TERRAIN RECIRCULATION USING SPECIAL TERRAIN ADJUSTMENT FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	0.250	0.500	0.750	1.000	DISTANCE IN MILES		2.500	3.000	3.500	4.000	4.500
					1.500	2.000					
S	7.701E-07	2.680E-07	1.562E-07	1.111E-07	7.123E-08	5.196E-08	4.034E-08	3.254E-08	2.699E-08	2.286E-08	1.970E-08
SSW	6.140E-07	2.079E-07	1.217E-07	8.830E-08	5.862E-08	4.372E-08	3.447E-08	2.813E-08	2.356E-08	2.011E-08	1.745E-08
SW	5.725E-07	1.945E-07	1.157E-07	8.515E-08	5.817E-08	4.433E-08	3.546E-08	2.922E-08	2.462E-08	2.112E-08	1.838E-08
WSW	9.422E-07	3.303E-07	1.989E-07	1.462E-07	9.799E-08	7.322E-08	5.766E-08	4.696E-08	3.920E-08	3.337E-08	2.886E-08
W	1.330E-06	4.489E-07	2.555E-07	1.795E-07	1.136E-07	8.247E-08	6.403E-08	5.174E-08	4.300E-08	3.651E-08	3.154E-08
WNW	6.938E-07	2.293E-07	1.321E-07	9.445E-08	6.233E-08	4.684E-08	3.720E-08	3.068E-08	2.587E-08	2.222E-08	1.937E-08
NW	8.736E-07	2.815E-07	1.595E-07	1.136E-07	7.636E-08	5.863E-08	4.743E-08	3.947E-08	3.355E-08	2.898E-08	2.538E-08
NNW	1.009E-06	3.318E-07	1.960E-07	1.430E-07	9.579E-08	7.212E-08	5.740E-08	4.725E-08	3.986E-08	3.427E-08	2.992E-08
N	2.306E-06	7.316E-07	4.153E-07	2.904E-07	1.844E-07	1.356E-07	1.068E-07	8.745E-08	7.356E-08	6.314E-08	5.507E-08
NNE	3.740E-06	1.177E-06	6.571E-07	4.597E-07	2.936E-07	2.170E-07	1.718E-07	1.414E-07	1.196E-07	1.032E-07	9.051E-08
NE	4.106E-06	1.264E-06	6.955E-07	4.904E-07	3.216E-07	2.424E-07	1.948E-07	1.620E-07	1.381E-07	1.200E-07	1.057E-07
ENE	3.076E-06	9.840E-07	6.000E-07	4.466E-07	3.032E-07	2.288E-07	1.826E-07	1.508E-07	1.277E-07	1.103E-07	9.666E-08
E	3.785E-06	1.239E-06	7.350E-07	5.285E-07	3.422E-07	2.511E-07	1.968E-07	1.605E-07	1.346E-07	1.154E-07	1.006E-07
ESE	4.867E-06	1.589E-06	8.795E-07	5.943E-07	3.531E-07	2.485E-07	1.869E-07	1.489E-07	1.226E-07	1.035E-07	8.909E-08
SE	2.115E-06	7.093E-07	3.990E-07	2.720E-07	1.631E-07	1.142E-07	8.649E-08	6.875E-08	5.650E-08	4.759E-08	4.086E-08
SSE	1.222E-06	4.108E-07	2.284E-07	1.568E-07	9.588E-08	6.811E-08	5.213E-08	4.172E-08	3.444E-08	2.911E-08	2.505E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	5.000	7.500	10.000	15.000	DISTANCE IN MILES		30.000	35.000	40.000	45.000	50.000
					20.000	25.000					
S	1.722E-08	1.014E-08	6.880E-09	3.959E-09	2.864E-09	1.953E-09	1.512E-09	1.215E-09	1.004E-09	8.475E-10	7.274E-10
SSW	1.534E-08	9.207E-09	6.324E-09	3.686E-09	2.497E-09	1.837E-09	1.426E-09	1.148E-09	9.494E-10	8.019E-10	6.885E-10
SW	1.619E-08	9.784E-09	6.722E-09	3.918E-09	2.654E-09	1.953E-09	1.515E-09	1.219E-09	1.008E-09	8.512E-10	7.305E-10
WSW	2.530E-08	1.498E-08	1.021E-08	5.871E-09	3.945E-09	2.866E-09	2.230E-09	1.789E-09	1.475E-09	1.243E-09	1.065E-09
W	2.763E-08	1.642E-08	1.125E-08	6.553E-09	4.449E-09	3.285E-09	2.558E-09	2.086E-09	1.715E-09	1.453E-09	1.251E-09
WNW	1.710E-08	1.042E-08	7.241E-09	4.283E-09	2.933E-09	2.177E-09	1.701E-09	1.377E-09	1.144E-09	9.703E-10	8.360E-10
NW	2.249E-08	1.385E-08	9.670E-09	5.748E-09	3.943E-09	2.929E-09	2.200E-09	1.856E-09	1.543E-09	1.309E-09	1.128E-09
NNW	2.645E-08	1.623E-08	1.135E-08	6.775E-09	4.609E-09	3.479E-09	2.727E-09	2.214E-09	1.844E-09	1.566E-09	1.351E-09
N	4.867E-08	2.990E-08	2.097E-08	1.260E-08	8.733E-09	6.543E-09	5.152E-09	4.199E-09	3.510E-09	2.991E-09	2.589E-09
NNE	8.039E-08	5.046E-08	3.595E-08	2.208E-08	1.553E-08	1.176E-08	9.341E-09	7.663E-09	6.441E-09	5.514E-09	4.791E-09
NE	9.429E-08	6.006E-08	4.318E-08	2.680E-08	1.896E-08	1.442E-08	1.148E-08	9.441E-09	7.949E-09	6.815E-09	5.928E-09
ENE	6.584E-08	5.380E-08	3.826E-08	2.341E-08	1.641E-08	1.239E-08	9.818E-09	8.039E-09	6.745E-09	5.765E-09	5.002E-09
E	8.806E-08	5.479E-08	3.858E-08	2.333E-08	1.624E-08	1.221E-08	9.637E-09	7.870E-09	6.589E-09	5.623E-09	4.872E-09
ESE	7.789E-08	4.625E-08	3.182E-08	1.871E-08	1.281E-08	9.529E-09	7.406E-09	6.063E-09	5.053E-09	4.301E-09	3.717E-09
SE	3.584E-08	2.096E-08	1.431E-08	8.315E-09	5.652E-09	4.178E-09	3.257E-09	2.635E-09	2.189E-09	1.857E-09	1.601E-09
SSE	2.189E-08	1.292E-08	8.822E-09	5.118E-09	3.489E-09	2.558E-09	1.990E-09	1.606E-09	1.332E-09	1.128E-09	9.714E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.610E-07	7.153E-08	4.014E-08	2.709E-08	1.972E-08	1.027E-08	4.034E-09	1.966E-09	1.219E-09	8.494E-10
SSW	1.260E-07	5.860E-08	3.411E-08	2.355E-08	1.746E-08	9.291E-09	3.745E-09	1.849E-09	1.152E-09	8.037E-10
SW	1.196E-07	5.802E-08	3.531E-08	2.460E-08	1.838E-08	9.841E-09	3.980E-09	1.985E-09	1.223E-09	8.530E-10
WSW	2.047E-07	9.770E-08	5.751E-08	3.920E-08	2.888E-08	1.515E-08	5.978E-09	2.906E-09	1.795E-09	1.246E-09
W	2.647E-07	1.144E-07	6.481E-08	4.302E-08	3.157E-08	1.661E-08	6.662E-09	3.305E-09	2.073E-09	1.456E-09
WNW	1.370E-07	6.259E-08	3.719E-08	2.585E-08	1.937E-08	1.049E-08	4.341E-09	2.188E-09	1.381E-09	9.721E-10
NW	1.662E-07	7.675E-08	4.723E-08	3.350E-08	2.536E-08	1.391E-08	5.817E-09	2.944E-09	1.851E-09	1.311E-09
NNW	2.026E-07	9.575E-08	5.726E-08	3.984E-08	2.992E-08	1.633E-08	6.855E-09	3.496E-09	2.210E-09	1.569E-09
N	4.301E-07	1.863E-07	1.068E-07	5.356E-08	5.509E-08	3.010E-08	1.274E-08	6.571E-09	4.209E-09	2.996E-09
NNE	6.849E-07	2.965E-07	1.717E-07	1.196E-07	9.054E-08	5.066E-08	2.226E-08	1.180E-08	7.677E-09	5.521E-09
NE	7.308E-07	3.239E-07	1.944E-07	1.580E-07	1.057E-07	6.016E-08	2.896E-08	1.446E-08	9.456E-09	6.823E-09
ENE	6.171E-07	3.020E-07	1.822E-07	1.276E-07	9.668E-08	5.401E-08	2.360E-08	1.243E-08	8.054E-09	5.773E-09
E	7.551E-07	3.431E-07	1.968E-07	1.347E-07	1.006E-07	5.516E-08	2.357E-08	1.226E-08	7.887E-09	5.631E-09
ESE	9.104E-07	3.593E-07	1.876E-07	1.228E-07	8.922E-08	4.687E-08	1.900E-08	9.580E-09	6.080E-09	4.308E-09
SE	4.115E-07	1.655E-07	8.677E-08	5.661E-08	4.092E-08	2.127E-08	8.463E-09	4.203E-09	2.643E-09	1.861E-09
SSE	2.371E-07	9.708E-08	5.222E-08	3.449E-08	2.508E-08	1.309E-08	5.208E-09	2.573E-09	1.611E-09	1.131E-09

LGS - MIXED-MODE RELEASE REACTOR ENCLOSURE (SOUTH VENT) 1991
8.000 DAY DECAY, DEPLETED

CORRECTED FOR OPEN TERRAIN RECIRCULATION

CORRECTED FOR OPEN TERRAIN RECIRCULATION USING SPECIAL TERRAIN ADJUSTMENT FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.200E-07	2.404E-07	1.415E-07	1.001E-07	6.386E-08	4.633E-08	3.574E-08	2.864E-08	2.360E-08	1.986E-08	1.701E-08
SSW	5.820E-07	1.911E-07	1.103E-07	7.970E-08	5.273E-08	3.915E-08	3.070E-08	2.492E-08	2.074E-08	1.761E-08	1.510E-08
SW	5.425E-07	1.787E-07	1.048E-07	7.696E-08	5.237E-08	3.999E-08	3.186E-08	2.614E-08	2.192E-08	1.871E-08	1.621E-08
WSW	8.920E-07	3.033E-07	1.802E-07	1.323E-07	8.844E-08	6.585E-08	5.159E-08	4.177E-08	3.467E-08	2.935E-08	2.524E-08
W	1.260E-06	4.117E-07	2.304E-07	1.607E-07	1.009E-07	7.277E-08	5.611E-08	4.502E-08	3.716E-08	3.135E-08	2.691E-08
WNW	6.574E-07	2.104E-07	1.192E-07	8.478E-08	5.575E-08	4.175E-08	3.308E-08	2.709E-08	2.272E-08	1.941E-08	1.684E-08
NW	8.280E-07	2.583E-07	1.437E-07	1.016E-07	6.829E-08	5.237E-08	4.224E-08	3.502E-08	2.963E-08	2.549E-08	2.222E-08
NNW	9.561E-07	3.045E-07	1.774E-07	1.288E-07	8.588E-08	6.441E-08	5.104E-08	4.183E-08	3.514E-08	3.009E-08	2.617E-08
N	2.185E-06	6.704E-07	3.733E-07	2.587E-07	1.639E-07	1.191E-07	9.327E-08	7.596E-08	6.358E-08	5.433E-08	4.710E-08
NNE	3.546E-06	1.601E-06	5.925E-07	4.109E-07	2.692E-07	1.913E-07	1.508E-07	1.237E-07	1.042E-07	8.966E-08	7.838E-08
NE	3.896E-06	1.622E-06	6.278E-07	4.305E-07	2.807E-07	2.153E-07	1.726E-07	1.432E-07	1.218E-07	1.055E-07	9.277E-08
E	2.918E-06	9.067E-07	5.408E-07	4.079E-07	2.767E-07	2.083E-07	1.658E-07	1.365E-07	1.153E-07	9.931E-08	8.688E-08
ESE	3.590E-06	1.130E-06	6.684E-07	4.704E-07	3.081E-07	2.251E-07	1.756E-07	1.426E-07	1.192E-07	1.018E-07	8.848E-08
SE	4.612E-06	1.456E-06	7.893E-07	5.270E-07	3.081E-07	2.126E-07	1.596E-07	1.260E-07	1.029E-07	8.626E-08	7.373E-08
SSE	2.005E-06	6.508E-07	3.591E-07	2.422E-07	1.432E-07	9.921E-08	7.440E-08	5.871E-08	4.788E-08	4.005E-08	3.415E-08
	1.158E-06	3.768E-07	2.055E-07	1.308E-07	8.449E-08	5.950E-08	4.516E-08	3.585E-08	2.938E-08	2.465E-08	2.107E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.478E-08	8.490E-09	5.658E-09	3.157E-09	2.079E-09	1.500E-09	1.146E-09	9.117E-10	7.463E-10	6.264E-10	5.331E-10
SSW	1.329E-08	7.815E-09	5.283E-09	3.002E-09	1.999E-09	1.452E-09	1.116E-09	8.915E-10	7.321E-10	6.159E-10	5.255E-10
SW	1.421E-08	8.421E-09	5.715E-09	3.265E-09	2.182E-09	1.591E-09	1.227E-09	9.837E-10	8.186E-10	6.842E-10	5.856E-10
WSW	2.200E-08	1.276E-08	8.543E-09	4.785E-09	3.167E-09	2.289E-09	1.753E-09	1.397E-09	1.146E-09	9.632E-10	8.212E-10
W	2.343E-08	1.361E-08	9.157E-09	5.194E-09	3.464E-09	2.525E-09	1.947E-09	1.563E-09	1.289E-09	1.088E-09	9.323E-10
WNW	1.400E-08	8.050E-09	5.089E-09	3.521E-09	2.382E-09	1.755E-09	1.365E-09	1.102E-09	9.153E-10	7.747E-10	6.630E-10
NW	1.961E-08	1.188E-08	8.187E-09	4.781E-09	3.245E-09	2.395E-09	1.866E-09	1.510E-09	1.253E-09	1.065E-09	9.169E-10
NNW	2.306E-08	1.308E-08	9.680E-09	5.712E-09	3.912E-09	2.909E-09	2.279E-09	1.852E-09	1.541E-09	1.310E-09	1.130E-09
N	4.152E-08	2.515E-08	1.744E-08	1.033E-08	7.105E-09	5.301E-09	4.168E-09	3.398E-09	2.839E-09	2.425E-09	2.099E-09
NNE	6.943E-08	4.324E-08	3.063E-08	1.869E-08	1.313E-08	9.951E-09	7.921E-09	6.522E-09	5.485E-09	4.706E-09	4.094E-09
NE	8.259E-08	5.231E-08	3.744E-08	2.316E-08	1.639E-08	1.250E-08	9.990E-09	8.254E-09	6.980E-09	5.988E-09	5.218E-09
E	7.708E-08	4.797E-08	3.396E-08	2.071E-08	1.452E-08	1.099E-08	8.741E-09	7.190E-09	6.039E-09	5.177E-09	4.488E-09
ESE	6.406E-08	3.719E-08	2.511E-08	1.450E-08	9.878E-09	7.104E-09	5.511E-09	4.443E-09	3.672E-09	3.112E-09	2.674E-09
SE	2.961E-08	1.702E-08	1.149E-08	6.445E-09	4.206E-09	3.130E-09	2.414E-09	1.935E-09	1.584E-09	1.344E-09	1.151E-09
SSE	1.030E-08	1.054E-08	7.055E-09	3.975E-09	2.638E-09	1.914E-09	1.471E-09	1.176E-09	9.607E-10	8.138E-10	6.952E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	5-1	1-2	2-3	3-4	SEGMENT BOUNDARIES IN MILES					30-40	40-50
					4-5	5-10	10-20	20-30			
S	1.464E-07	6.413E-08	3.573E-08	2.362E-08	1.703E-08	8.631E-09	3.234E-09	1.513E-09	9.156E-10	6.274E-10	
SSW	1.147E-07	5.268E-08	3.064E-08	2.074E-08	1.520E-08	7.985E-09	3.063E-09	1.463E-09	8.948E-10	6.189E-10	
SW	1.088E-07	5.239E-08	3.174E-08	2.190E-08	1.621E-08	8.505E-09	3.320E-09	1.603E-09	9.873E-10	6.852E-10	
WSW	1.862E-07	8.813E-08	5.147E-08	3.467E-08	2.526E-08	1.294E-08	5.304E-09	2.309E-09	1.403E-09	9.647E-10	
W	2.597E-07	1.017E-07	5.612E-08	3.719E-08	2.694E-08	1.382E-08	5.305E-09	2.544E-09	1.568E-09	1.090E-09	
WNW	1.242E-07	5.598E-08	3.308E-08	2.271E-08	1.685E-08	8.939E-09	3.581E-09	1.766E-09	1.105E-09	7.755E-10	
NW	1.505E-07	6.865E-08	4.205E-08	2.959E-08	2.222E-08	1.196E-08	4.855E-09	2.410E-09	1.514E-09	1.066E-09	
NNW	1.840E-07	8.586E-08	5.092E-08	3.513E-08	2.618E-08	1.488E-08	5.794E-09	2.924E-09	1.856E-09	1.312E-09	
N	3.884E-07	1.647E-07	9.325E-08	6.359E-08	4.720E-08	2.536E-08	1.048E-08	5.329E-09	3.405E-09	2.472E-09	
NNE	6.203E-07	2.631E-07	1.507E-07	1.042E-07	7.841E-08	4.345E-08	1.886E-08	9.986E-09	6.527E-09	4.710E-09	
NE	6.629E-07	2.890E-07	1.723E-07	1.217E-07	9.277E-08	5.243E-08	2.333E-08	1.253E-08	8.257E-09	5.990E-09	
E	5.656E-07	2.755E-07	1.654E-07	1.193E-07	8.650E-08	4.804E-08	2.090E-08	1.103E-08	7.195E-09	5.181E-09	
ESE	6.886E-07	3.090E-07	1.756E-07	1.032E-07	7.386E-08	3.779E-08	1.468E-08	7.153E-09	4.456E-09	3.117E-09	
SE	8.209E-07	3.143E-07	1.603E-07	1.032E-07	7.386E-08	3.779E-08	1.468E-08	7.153E-09	4.456E-09	3.117E-09	
SSE	3.713E-07	1.456E-07	7.477E-08	4.799E-08	3.422E-08	1.732E-08	6.590E-09	3.155E-09	1.942E-09	1.347E-09	
	2.143E-07	8.566E-08	4.526E-08	2.943E-08	2.111E-08	1.072E-08	4.065E-09	1.930E-09	1.181E-09	8.152E-10	

LGS - MIXED-MODE RELEASE REACTOR ENCLOSURE (SOUTH VENT) 1991

CORRECTED FOR OPEN TERRAIN RECIRCULATION

CORRECTED FOR OPEN TERRAIN RECIRCULATION USING SPECIAL TERRAIN ADJUSTMENT FACTORS

***** RELATIVE DEPOSITION PER UNIT AREA (M--2) AT FIXED POINTS BY DOWNWIND SECTORS *****

DIRECTION FROM SITE	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	7.389E-09	2.767E-09	1.562E-09	1.055E-09	5.807E-10	3.819E-10	2.737E-10	2.068E-10	1.620E-10	1.302E-10	1.069E-10
SSW	4.285E-09	1.639E-09	9.525E-10	6.641E-10	3.776E-10	2.541E-10	1.849E-10	1.411E-10	1.112E-10	8.979E-11	7.386E-11
SW	3.522E-09	1.357E-09	8.055E-10	5.761E-10	3.363E-10	2.301E-10	1.692E-10	1.299E-10	1.028E-10	8.321E-11	6.854E-11
WSW	6.990E-09	2.615E-09	1.527E-09	1.080E-09	6.273E-10	4.265E-10	3.123E-10	2.392E-10	1.889E-10	1.526E-10	1.256E-10
W	1.065E-08	3.873E-09	2.156E-09	1.444E-09	7.921E-10	5.182E-10	3.700E-10	2.787E-10	2.178E-10	1.748E-10	1.432E-10
WNW	4.778E-09	1.776E-09	1.212E-09	8.950E-10	3.916E-10	2.612E-10	1.889E-10	1.436E-10	1.128E-10	9.090E-11	7.466E-11
NW	4.511E-09	1.717E-09	9.971E-10	6.950E-10	3.951E-10	2.658E-10	1.933E-10	1.475E-10	1.162E-10	9.382E-11	7.716E-11
NNW	5.840E-09	2.359E-09	1.388E-09	9.459E-10	5.270E-10	3.397E-10	2.389E-10	1.782E-10	1.384E-10	1.107E-10	9.063E-11
N	1.209E-08	4.483E-09	2.440E-09	1.623E-09	8.811E-10	5.734E-10	4.080E-10	3.067E-10	2.393E-10	1.920E-10	1.572E-10
NNE	2.062E-08	8.810E-09	4.378E-09	2.825E-09	1.491E-09	9.369E-10	6.491E-10	4.792E-10	3.697E-10	2.945E-10	2.405E-10
NE	1.859E-08	7.517E-09	4.000E-09	2.623E-09	1.379E-09	8.715E-10	6.070E-10	4.502E-10	3.485E-10	2.785E-10	2.280E-10
ENE	1.021E-08	6.507E-09	3.559E-09	2.302E-09	1.216E-09	7.704E-10	5.377E-10	3.992E-10	3.093E-10	2.473E-10	2.024E-10
E	2.934E-08	1.109E-08	5.983E-09	3.822E-09	1.995E-09	1.246E-09	8.601E-10	6.332E-10	4.874E-10	3.877E-10	3.162E-10
ESE	4.874E-08	1.730E-08	9.214E-09	5.850E-09	3.014E-09	1.883E-09	1.302E-09	9.596E-10	7.388E-10	5.873E-10	4.785E-10
SE	2.458E-08	8.851E-09	4.763E-09	3.047E-09	1.580E-09	9.930E-10	6.895E-10	5.097E-10	3.934E-10	3.133E-10	2.556E-10
SSE	1.251E-08	4.493E-09	2.440E-09	1.586E-09	8.407E-10	5.365E-10	3.766E-10	2.804E-10	2.174E-10	1.736E-10	1.419E-10

DIRECTION FROM SITE	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	8.915E-11	4.532E-11	2.864E-11	1.481E-11	9.184E-12	6.396E-12	4.740E-12	3.668E-12	2.931E-12	2.400E-12	2.005E-12
SSW	6.169E-11	3.154E-11	1.995E-11	1.034E-11	6.426E-12	4.486E-12	3.337E-12	2.593E-12	2.081E-12	1.711E-12	1.437E-12
SW	5.727E-11	2.935E-11	1.856E-11	9.614E-12	5.972E-12	4.165E-12	3.093E-12	2.402E-12	1.927E-12	1.584E-12	1.331E-12
WSW	1.048E-10	5.352E-11	3.378E-11	1.743E-11	1.079E-11	7.476E-12	5.520E-12	4.264E-12	3.404E-12	2.787E-12	2.331E-12
W	1.193E-10	6.035E-11	3.805E-11	1.957E-11	1.208E-11	8.349E-12	6.157E-12	4.753E-12	3.795E-12	3.108E-12	2.602E-12
WNW	6.229E-11	3.171E-11	2.002E-11	1.034E-11	6.406E-12	4.455E-12	3.307E-12	2.573E-12	2.071E-12	1.709E-12	1.443E-12
NW	6.444E-11	3.293E-11	2.082E-11	1.078E-11	6.700E-12	4.685E-12	3.495E-12	2.731E-12	2.208E-12	1.829E-12	1.551E-12
NNW	7.556E-11	3.777E-11	2.342E-11	1.186E-11	7.325E-12	5.082E-12	3.797E-12	2.990E-12	2.446E-12	2.053E-12	1.770E-12
N	1.310E-10	6.627E-11	4.184E-11	2.156E-11	1.334E-11	9.278E-12	6.909E-12	5.404E-12	4.381E-12	3.643E-12	3.106E-12
NNE	2.004E-10	1.001E-10	6.267E-11	3.227E-11	2.018E-11	1.418E-11	1.077E-11	8.622E-12	7.184E-12	6.123E-12	5.359E-12
NE	1.903E-10	9.591E-11	6.054E-11	3.172E-11	2.012E-11	1.441E-11	1.115E-11	9.073E-12	7.679E-12	6.628E-12	5.868E-12
ENE	1.689E-10	8.518E-11	5.371E-11	2.804E-11	1.771E-11	1.262E-11	9.691E-12	7.820E-12	6.556E-12	5.611E-12	4.924E-12
E	2.631E-10	1.311E-10	8.220E-11	4.226E-11	2.629E-11	1.833E-11	1.375E-11	1.084E-11	8.879E-12	7.448E-12	6.403E-12
ESE	3.970E-10	1.984E-10	1.250E-10	6.407E-11	3.937E-11	2.711E-11	1.983E-11	1.534E-11	1.222E-11	992E-12	8.353E-12
SE	2.126E-10	1.065E-10	6.716E-11	3.452E-11	2.127E-11	1.471E-11	1.084E-11	8.354E-12	6.653E-12	5.432E-12	4.530E-12
SSE	1.181E-10	5.930E-11	3.737E-11	1.919E-11	1.182E-11	8.146E-12	5.990E-12	4.688E-12	3.667E-12	2.992E-12	2.495E-12

***** RELATIVE DEPOSITION PER UNIT AREA (M--2) BY DOWNWIND SECTORS *****

DIRECTION FROM SITE	0.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.604E-09	5.977E-10	2.758E-10	1.627E-10	1.072E-10	4.765E-11	1.538E-11	6.477E-12	3.693E-12	2.411E-12
SSW	9.769E-10	3.864E-10	1.858E-10	1.116E-10	7.407E-11	3.389E-11	1.074E-11	4.545E-12	2.610E-12	1.719E-12
SW	8.260E-10	3.424E-10	1.697E-10	1.031E-10	6.871E-11	3.076E-11	9.984E-12	4.218E-12	2.418E-12	1.592E-12
WSW	1.570E-09	6.388E-10	3.135E-10	1.895E-10	1.259E-10	5.615E-11	1.811E-11	7.578E-12	4.295E-12	2.801E-12
W	2.221E-09	8.153E-10	3.730E-10	2.188E-10	1.437E-10	6.354E-11	2.035E-11	8.467E-12	4.789E-12	3.124E-12
WNW	1.041E-09	4.013E-10	1.900E-10	1.133E-10	7.489E-11	3.331E-11	1.074E-11	4.516E-12	2.591E-12	1.718E-12
NW	1.023E-09	4.043E-10	1.943E-10	1.166E-10	7.739E-11	3.455E-11	1.120E-11	4.746E-12	2.750E-12	1.838E-12
NNW	1.407E-09	5.368E-10	2.415E-10	1.392E-10	9.100E-11	3.979E-11	1.241E-11	5.186E-12	3.014E-12	2.065E-12
N	2.513E-09	9.091E-10	4.116E-10	2.405E-10	1.578E-10	6.989E-11	2.241E-11	9.413E-12	5.444E-12	3.663E-12
NNE	4.495E-09	1.541E-09	6.579E-10	3.723E-10	2.417E-10	1.057E-10	3.365E-11	1.442E-11	8.688E-12	6.154E-12
NE	4.196E-09	1.430E-09	6.148E-10	3.509E-10	2.290E-10	1.012E-10	3.297E-11	1.463E-11	9.134E-12	6.658E-12
ENE	3.655E-09	1.259E-09	5.444E-10	3.114E-10	2.033E-10	8.980E-11	2.915E-11	1.281E-11	7.873E-12	5.637E-12
E	6.157E-09	2.068E-09	8.723E-10	4.910E-10	3.177E-10	1.387E-10	4.404E-11	1.862E-11	1.092E-11	7.485E-12
ESE	9.515E-09	3.142E-09	1.320E-09	7.442E-10	4.808E-10	2.101E-10	6.664E-11	2.751E-11	1.546E-11	1.005E-11
SE	4.909E-09	1.645E-09	6.985E-10	3.961E-10	2.567E-10	1.126E-10	3.589E-11	1.491E-11	8.417E-12	5.468E-12
SSE	2.516E-09	8.711E-10	3.808E-10	2.187E-10	1.425E-10	6.261E-11	1.995E-11	8.262E-12	4.644E-12	3.008E-12

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 61.00
DIAMETER (METERS) 3.44REP. WIND HEIGHT (METERS) 53.3
BUILDING HEIGHT (METERS) 61.0

LGS - MIXED-MODE RELEASE REACTOR ENCLOSURE (SOUTH VENT) 1991
 CORRECTED FOR OPEN TERRAIN RECIRCULATION
 SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(PER SQ.METER)
			NO DECAY 2.260 DAY DECAY 5.000 DAY DECAY					
					UNDEPLETED	UNDEPLETED	DEPLETED	
S	SITE BOUNDARY	S	0.81	1311.	1.412E-07	1.409E-07	1.274E-07	1.396E-09
S	SITE BOUNDARY	SSW	0.49	793.	2.121E-07	2.118E-07	1.948E-07	1.672E-09
S	SITE BOUNDARY	SW	0.61	975.	1.512E-07	1.509E-07	1.374E-07	1.050E-09
S	SITE BOUNDARY	WSW	0.55	884.	2.924E-07	2.919E-07	2.668E-07	2.294E-09
S	SITE BOUNDARY	W	0.57	914.	3.751E-07	3.745E-07	3.411E-07	3.211E-09
S	SITE BOUNDARY	WNW	0.55	884.	2.013E-07	2.009E-07	1.835E-07	1.553E-09
S	SITE BOUNDARY	NW	0.59	945.	2.242E-07	2.237E-07	2.035E-07	1.376E-09
S	SITE BOUNDARY	NNW	0.68	1097.	2.211E-07	2.206E-07	2.000E-07	1.576E-09
S	SITE BOUNDARY	N	0.83	1006.	5.343E-07	5.331E-07	4.825E-07	3.182E-09
S	SITE BOUNDARY	NNE	0.55	884.	1.028E-06	1.025E-06	9.366E-07	6.987E-09
S	SITE BOUNDARY	NE	0.53	853.	1.157E-06	1.154E-06	1.057E-06	6.909E-09
S	SITE BOUNDARY	ENE	0.72	1158.	6.304E-07	6.285E-07	5.747E-07	3.789E-09
S	SITE BOUNDARY	E	0.72	1158.	7.751E-07	7.732E-07	7.037E-07	6.379E-09
S	SITE BOUNDARY	ESE	0.51	823.	1.538E-06	1.536E-06	1.405E-06	1.670E-08
S	SITE BOUNDARY	SE	0.76	1219.	3.939E-07	3.932E-07	3.537E-07	4.689E-09
S	SITE BOUNDARY	SSE	0.78	1250.	2.178E-07	2.174E-07	1.954E-07	2.314E-09
S	RAILROAD TRACKS	S	6.19	300.	1.274E-06	1.274E-06	1.220E-06	1.093E-08
S	RAILROAD TRACKS	SSW	0.14	225.	1.681E-06	1.680E-06	1.623E-06	9.272E-09
S	RAILROAD TRACKS	SW	0.14	225.	1.588E-06	1.587E-06	1.533E-06	7.633E-09
S	RAILROAD TRACKS	WSW	0.14	225.	2.643E-06	2.642E-06	2.552E-06	1.552E-08
S	RAILROAD TRACKS	W	0.14	225.	3.711E-06	3.710E-06	3.584E-06	2.392E-08
S	RAILROAD TRACKS	WNW	0.21	345.	9.071E-07	9.064E-07	8.639E-07	5.871E-09
S	RAILROAD TRACKS	NW	0.28	450.	7.178E-07	7.170E-07	6.764E-07	3.862E-09
S	INFORMATION CTR	ESE	0.55	884.	1.385E-06	1.383E-06	1.261E-06	1.496E-08
S	FRICKS LOCK	WSW	0.28	450.	7.745E-07	7.739E-07	7.297E-07	5.964E-09

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 61.00
 DIAMETER (METERS) 3.44
 EXIT VELOCITY (M/SEC) 7.32

REP. WIND HEIGHT (METERS) 53.3
 BUILDING HEIGHT (METERS) 61.0
 BLDG. WIN. CRS. SEC. AREA (SQ. METERS) 4596.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT:

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 1.464
 MIXED BETWEEN 1.464 AND 7.320
 GROUND LEVEL ABOVE 7.320

AT THE MEASURED WIND HEIGHT (9.1 METERS):

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED STABLE CONDITIONS
 MIXED LESS THAN 0.605
 GROUND LEVEL BETWEEN 0.605 AND 3.025
 ABOVE 3.025

WIND SPEED (METERS/SEC)
 UNSTABLE, NEUTRAL CONDITIONS
 LESS THAN 0.941
 BETWEEN 0.941 AND 4.705
 ABOVE 4.705

LGS - MIXED-MODE RELEASE TURBINE ENCLOSURE (NORTH VENT) 1991
 2.260 DAY DECAY, UNDEPLETED
 CORRECTED FOR OPEN TERRAIN RECIRCULATION
 CORRECTED FOR OPEN TERRAIN RECIRCULATION USING SPECIAL TERRAIN ADJUSTMENT FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)				DISTANCE IN MILES							
SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.995E-07	2.416E-07	1.374E-07	9.531E-08	5.976E-08	4.370E-08	3.430E-08	2.801E-08	2.349E-08	2.010E-08	1.746E-08
SSW	5.511E-07	1.850E-07	1.052E-07	7.425E-08	4.817E-08	3.608E-08	2.880E-08	2.383E-08	2.020E-08	1.744E-08	1.526E-08
SW	5.208E-07	1.751E-07	1.006E-07	7.144E-08	4.724E-08	3.612E-08	2.931E-08	2.454E-08	2.098E-08	1.822E-08	1.603E-08
WSW	8.020E-07	2.900E-07	1.720E-07	1.234E-07	8.099E-08	6.095E-08	4.869E-08	4.023E-08	3.402E-08	2.928E-08	2.556E-08
W	1.201E-06	4.034E-07	2.249E-07	1.547E-07	9.593E-08	6.977E-08	5.468E-08	4.464E-08	3.746E-08	3.209E-08	2.792E-08
WNW	6.249E-07	2.048E-07	1.149E-07	7.954E-08	5.044E-08	3.774E-08	3.036E-08	2.534E-08	2.166E-08	1.884E-08	1.660E-08
NW	7.798E-07	2.499E-07	1.388E-07	9.519E-08	6.058E-08	4.617E-08	3.782E-08	3.202E-08	2.766E-08	2.425E-08	2.150E-08
NNW	9.110E-07	2.947E-07	1.682E-07	1.192E-07	7.798E-08	5.901E-08	4.761E-08	3.974E-08	3.395E-08	2.950E-08	2.598E-08
N	2.062E-06	6.505E-07	3.626E-07	2.488E-07	1.546E-07	1.136E-07	9.014E-08	7.451E-08	6.325E-08	5.475E-08	4.809E-08
NNE	3.359E-06	1.048E-06	5.749E-07	3.950E-07	2.479E-07	1.834E-07	1.462E-07	1.214E-07	1.034E-07	8.982E-08	7.910E-08
NE	3.684E-06	1.125E-06	6.058E-07	4.170E-07	2.673E-07	2.018E-07	1.635E-07	1.373E-07	1.181E-07	1.033E-07	9.161E-08
ENE	2.759E-06	8.644E-07	4.907E-07	3.595E-07	2.429E-07	1.861E-07	1.510E-07	1.264E-07	1.082E-07	9.421E-08	8.318E-08
E	3.411E-06	1.101E-06	6.283E-07	4.428E-07	2.845E-07	2.136E-07	1.669E-07	1.374E-07	1.163E-07	1.003E-07	8.792E-08
ESE	4.388E-06	1.432E-06	7.859E-07	5.260E-07	3.093E-07	2.160E-07	1.644E-07	1.316E-07	1.090E-07	9.246E-08	7.989E-08
SE	1.916E-06	6.404E-07	3.559E-07	2.400E-07	1.426E-07	9.986E-08	7.618E-08	6.096E-08	5.042E-08	4.271E-08	3.684E-08
SSE	1.110E-06	3.728E-07	2.043E-07	1.379E-07	8.278E-08	5.874E-08	4.522E-08	3.648E-08	3.035E-08	2.583E-08	2.237E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)				DISTANCE IN MILES							
BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.538E-08	9.273E-09	6.379E-09	3.713E-09	2.516E-09	1.851E-09	1.436E-09	1.157E-09	9.572E-10	8.088E-10	6.948E-10
SSW	1.353E-08	8.336E-09	5.812E-09	3.436E-09	2.346E-09	1.735E-09	1.351E-09	1.090E-09	9.037E-10	7.645E-10	6.573E-10
SW	1.425E-08	8.842E-09	6.181E-09	3.658E-09	2.497E-09	1.846E-09	1.436E-09	1.159E-09	9.598E-10	8.115E-10	6.972E-10
WSW	2.258E-08	1.372E-08	9.467E-09	5.519E-09	3.733E-09	2.742E-09	2.124E-09	1.707E-09	1.410E-09	1.189E-09	1.020E-09
W	2.461E-08	1.493E-08	1.034E-08	6.086E-09	4.154E-09	3.076E-09	2.400E-09	1.942E-09	1.614E-09	1.368E-09	1.179E-09
WNW	1.479E-08	9.287E-09	6.557E-09	3.941E-09	2.721E-09	2.030E-09	1.591E-09	1.291E-09	1.075E-09	9.134E-10	7.880E-10
NW	1.925E-08	1.226E-08	8.717E-09	5.271E-09	3.646E-09	2.722E-09	2.136E-09	1.734E-09	1.445E-09	1.227E-09	1.059E-09
NNW	2.315E-08	1.458E-08	1.037E-08	6.243E-09	4.333E-09	3.245E-09	2.552E-09	2.077E-09	1.733E-09	1.475E-09	1.275E-09
N	4.276E-08	2.681E-08	1.901E-08	1.155E-08	8.048E-09	6.052E-09	4.778E-09	3.902E-09	3.267E-09	2.788E-09	2.415E-09
NNE	7.066E-08	4.507E-08	3.240E-08	2.010E-08	1.422E-08	1.081E-08	8.610E-09	7.081E-09	5.963E-09	5.114E-09	4.450E-09
NE	8.218E-08	5.326E-08	3.806E-08	2.426E-08	1.727E-08	1.319E-08	1.054E-08	8.691E-09	7.334E-09	6.300E-09	5.489E-09
ENE	7.432E-08	4.750E-08	3.415E-08	2.118E-08	1.495E-08	1.135E-08	9.028E-09	7.416E-09	6.239E-09	5.345E-09	4.647E-09
E	7.807E-08	4.893E-08	3.478E-08	2.127E-08	1.490E-08	1.126E-08	8.917E-09	7.302E-09	6.129E-09	5.241E-09	4.549E-09
ESE	7.010E-08	4.218E-08	2.921E-08	1.731E-08	1.191E-08	8.879E-09	6.971E-09	5.670E-09	4.734E-09	4.032E-09	3.488E-09
SE	3.228E-08	1.927E-08	1.326E-08	7.773E-09	5.309E-09	3.937E-09	3.076E-09	2.492E-09	2.074E-09	1.761E-09	1.520E-09
SSE	1.965E-08	1.182E-08	8.153E-09	4.781E-09	3.258E-09	2.411E-09	1.880E-09	1.520E-09	1.263E-09	1.071E-09	9.228E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES									
	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.418E-07	6.052E-08	3.429E-08	2.349E-08	1.747E-08	9.343E-09	3.773E-09	1.862E-09	1.161E-09	8.105E-10
SSW	1.092E-07	4.859E-08	2.875E-08	2.019E-08	1.526E-08	8.368E-09	3.480E-09	1.744E-09	1.094E-09	7.660E-10
SW	1.042E-07	4.768E-08	2.922E-08	2.095E-08	1.602E-08	8.860E-09	3.703E-09	1.856E-09	1.162E-09	8.131E-10
WSW	1.787E-07	8.150E-08	4.858E-08	3.399E-08	2.556E-08	1.380E-08	5.602E-09	2.759E-09	1.713E-09	1.192E-09
W	2.333E-07	9.736E-08	5.469E-08	3.747E-08	2.793E-08	1.504E-08	6.173E-09	3.093E-09	1.948E-09	1.371E-09
WNW	1.191E-07	5.126E-08	3.032E-08	2.164E-08	1.659E-08	9.296E-09	3.980E-09	2.039E-09	1.295E-09	9.150E-10
NW	1.441E-07	6.186E-08	3.773E-08	2.761E-08	2.148E-08	1.224E-08	5.315E-09	2.734E-09	1.739E-09	1.229E-09
NNW	1.745E-07	7.870E-08	4.750E-08	3.391E-08	2.598E-08	1.458E-08	6.299E-09	3.258E-09	2.082E-09	1.477E-09
N	3.760E-07	1.573E-07	9.014E-08	6.323E-08	4.809E-08	2.680E-08	1.165E-08	6.075E-09	3.910E-09	2.792E-09
NNE	6.001E-07	2.519E-07	1.462E-07	1.034E-07	7.918E-08	4.512E-08	2.022E-08	1.084E-08	7.092E-09	5.120E-09
NE	6.373E-07	2.715E-07	1.632E-07	1.180E-07	9.158E-08	5.319E-08	2.435E-08	1.322E-08	8.702E-09	6.306E-09
ENE	5.174E-07	2.436E-07	1.505E-07	1.080E-07	8.317E-08	4.752E-08	2.129E-08	1.138E-08	7.428E-09	5.351E-09
E	6.510E-07	2.868E-07	1.660E-07	1.162E-07	8.795E-08	4.912E-08	2.144E-08	1.129E-08	7.316E-09	5.248E-09
ESE	8.141E-07	3.160E-07	1.651E-07	1.092E-07	7.999E-08	4.261E-08	1.755E-08	8.923E-09	5.685E-09	4.039E-09
SE	3.676E-07	1.453E-07	7.643E-08	5.049E-08	3.689E-08	1.949E-08	7.897E-09	3.958E-09	2.500E-09	1.764E-09
SSE	2.123E-07	8.435E-08	4.533E-08	3.038E-08	2.239E-08	1.193E-08	4.853E-09	2.424E-09	1.525E-09	1.073E-09

LGS - MIXED-MODE RELEASE TURBINE ENCLOSURE (NORTH VENT) 1991
 8.000 DAY DECAY DEPLETED
 CORRECTED FOR OPEN TERRAIN RECIRCULATION
 CORRECTED FOR OPEN TERRAIN RECIRCULATION USING SPECIAL TERRAIN ADJUSTMENT FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.628E-07	2.218E-07	1.239E-07	8.527E-08	5.305E-08	3.860E-08	3.015E-08	2.449E-08	2.043E-08	1.738E-08	1.502E-08
SSW	5.222E-07	1.698E-07	9.486E-08	6.646E-08	4.286E-08	3.199E-08	2.544E-08	2.095E-08	1.769E-08	1.520E-08	1.325E-08
SW	4.935E-07	1.606E-07	9.064E-08	6.395E-08	4.214E-08	3.220E-08	2.608E-08	2.177E-08	1.855E-08	1.606E-08	1.407E-08
WSW	8.165E-07	2.731E-07	1.557E-07	1.105E-07	7.227E-08	5.426E-08	4.319E-08	3.554E-08	2.92E-08	2.563E-08	2.226E-08
W	1.138E-06	3.696E-07	2.020E-07	1.376E-07	8.446E-08	6.103E-08	4.755E-08	3.860E-08	3.221E-08	2.743E-08	2.374E-08
WNW	5.920E-07	1.877E-07	1.033E-07	7.083E-08	4.453E-08	3.321E-08	2.664E-08	2.165E-08	1.888E-08	1.635E-08	1.435E-08
NW	7.390E-07	2.292E-07	1.247E-07	8.459E-08	5.339E-08	4.064E-08	3.272E-08	2.812E-08	2.424E-08	2.119E-08	1.873E-08
NNW	8.631E-07	2.701E-07	1.515E-07	1.065E-07	6.933E-08	5.236E-08	4.215E-08	3.509E-08	2.989E-08	2.590E-08	2.275E-08
N	1.954E-06	5.957E-07	3.251E-07	2.205E-07	1.353E-07	9.844E-08	7.811E-08	6.431E-08	5.439E-08	4.691E-08	4.106E-08
NNE	3.185E-06	9.620E-07	5.171E-07	3.515E-07	2.184E-07	1.607E-07	1.277E-07	1.057E-07	8.984E-08	7.785E-08	6.847E-08
NE	3.496E-06	1.034E-06	5.453E-07	3.716E-07	2.362E-07	1.778E-07	1.439E-07	1.206E-07	1.036E-07	9.048E-08	8.011E-08
ENE	2.618E-06	7.947E-07	4.506E-07	3.248E-07	2.191E-07	1.678E-07	1.359E-07	1.136E-07	9.704E-08	8.437E-08	7.437E-08
E	3.235E-06	1.011E-06	5.681E-07	3.975E-07	2.537E-07	1.871E-07	1.477E-07	1.213E-07	1.023E-07	8.803E-08	7.697E-08
ESE	4.157E-06	1.312E-06	7.044E-07	4.852E-07	3.267E-07	2.398E-07	1.98E-07	1.66E-07	1.42E-07	1.24E-07	1.08E-07
SE	1.816E-06	5.872E-07	3.197E-07	2.130E-07	1.246E-07	8.642E-08	6.530E-08	5.186E-08	4.260E-08	3.586E-08	3.075E-08
SSE	1.052E-06	3.417E-07	1.834E-07	1.224E-07	7.242E-08	5.091E-08	3.808E-08	3.117E-08	2.576E-08	2.179E-08	1.876E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.316E-08	7.770E-09	5.247E-09	2.969E-09	1.970E-09	1.427E-09	1.094E-09	8.719E-10	7.156E-10	6.020E-10	5.136E-10
SSW	1.169E-08	7.077E-09	4.899E-09	2.809E-09	1.887E-09	1.378E-09	1.055E-09	8.535E-10	7.037E-10	5.941E-10	5.085E-10
SW	1.240E-08	7.619E-09	5.256E-09	3.053E-09	2.058E-09	1.508E-09	1.172E-09	9.379E-10	7.753E-10	6.561E-10	5.630E-10
WSW	1.958E-08	1.167E-08	7.927E-09	4.513E-09	3.003E-09	2.179E-09	1.673E-09	1.336E-09	1.099E-09	9.258E-10	7.910E-10
W	2.082E-08	1.230E-08	8.427E-09	4.837E-09	3.245E-09	2.373E-09	1.835E-09	1.475E-09	1.219E-09	1.032E-09	8.866E-10
WNW	1.274E-08	7.881E-09	5.493E-09	3.243E-09	2.213E-09	1.630E-09	1.279E-09	1.036E-09	8.620E-10	7.338E-10	6.332E-10
NW	1.672E-08	1.051E-08	7.587E-09	4.394E-09	3.009E-09	2.233E-09	1.746E-09	1.41E-09	1.180E-09	1.005E-09	8.686E-10
NNW	2.021E-08	1.259E-08	8.841E-09	5.294E-09	3.654E-09	2.730E-09	2.147E-09	1.774E-09	1.461E-09	1.246E-09	1.078E-09
N	3.639E-08	2.255E-08	1.583E-08	9.495E-09	6.571E-09	4.924E-09	3.803E-09	3.173E-09	2.661E-09	2.279E-09	1.961E-09
NNE	6.990E-08	3.865E-08	2.764E-08	1.706E-08	1.205E-08	9.174E-09	7.326E-09	6.548E-09	5.104E-09	4.393E-09	3.832E-09
NE	7.173E-08	4.632E-08	3.351E-08	2.097E-08	1.494E-08	1.144E-08	9.179E-09	7.607E-09	6.430E-09	5.541E-09	4.838E-09
ENE	6.633E-08	4.200E-08	3.023E-08	1.868E-08	1.320E-08	1.005E-08	8.029E-09	6.627E-09	5.582E-09	4.797E-09	4.177E-09
E	6.819E-08	4.243E-08	2.999E-08	1.824E-08	1.276E-08	9.639E-09	7.654E-09	6.288E-09	5.278E-09	4.521E-09	3.926E-09
ESE	5.762E-08	3.590E-08	2.313E-08	1.330E-08	9.050E-09	6.668E-09	5.186E-09	4.191E-09	3.481E-09	2.955E-09	2.548E-09
SE	2.679E-08	1.507E-08	1.059E-08	6.051E-09	4.058E-09	2.968E-09	2.294E-09	1.844E-09	1.524E-09	1.288E-09	1.108E-09
SSE	1.639E-08	9.643E-09	6.528E-09	3.723E-09	2.487E-09	1.812E-09	1.397E-09	1.119E-09	9.220E-10	7.789E-10	6.673E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	0-1	1-2	2-3	3-4	SEGMENT BOUNDARIES IN MILES					20-30	30-40	40-50
S	1.285E-07	5.379E-08	3.614E-08	2.043E-08	1.503E-08	7.847E-09	3.031E-09	1.438E-09	8.757E-10	6.029E-10	5.949E-10	5.949E-10
SSW	9.890E-08	4.327E-08	2.540E-08	1.768E-08	1.325E-08	7.116E-09	2.855E-09	1.389E-09	8.567E-10	6.569E-10	6.569E-10	6.569E-10
SW	8.432E-08	4.257E-08	2.599E-08	1.852E-08	1.406E-08	7.644E-09	3.100E-09	1.518E-09	9.11E-10	7.342E-10	7.342E-10	7.342E-10
WSW	1.617E-07	7.276E-08	4.308E-08	2.989E-08	2.226E-08	1.176E-08	4.600E-09	2.197E-09	1.342E-09	1.034E-09	1.034E-09	1.034E-09
W	2.106E-07	8.586E-08	4.756E-08	3.222E-08	2.376E-08	1.250E-08	4.927E-09	2.390E-09	1.400E-09	1.034E-09	1.034E-09	1.034E-09
WNW	1.076E-07	4.534E-08	2.600E-08	1.885E-08	1.435E-08	7.899E-09	3.285E-09	1.648E-09	1.039E-09	7.345E-10	7.345E-10	7.345E-10
NW	1.301E-07	5.468E-08	3.318E-08	2.418E-08	1.871E-08	1.050E-08	4.444E-09	2.246E-09	1.421E-09	1.006E-09	1.006E-09	1.006E-09
NNW	1.579E-07	7.086E-08	4.205E-08	2.986E-08	2.274E-08	1.262E-08	5.354E-09	2.743E-09	1.753E-09	1.247E-09	1.247E-09	1.247E-09
N	3.387E-07	1.590E-07	7.612E-08	5.437E-08	4.106E-08	2.264E-08	9.603E-09	4.947E-09	3.181E-09	2.282E-09	2.282E-09	2.282E-09
NNE	5.424E-07	2.223E-07	1.277E-07	8.981E-08	6.848E-08	3.872E-08	1.719E-08	9.202E-09	6.053E-09	4.396E-09	4.396E-09	4.396E-09
NE	5.766E-07	2.484E-07	1.436E-07	1.035E-07	8.000E-08	4.627E-08	2.108E-08	1.147E-08	7.600E-09	5.544E-09	5.544E-09	5.544E-09
ENE	4.711E-07	2.198E-07	1.355E-07	9.639E-08	7.435E-08	4.224E-08	1.881E-08	1.008E-08	6.630E-09	4.800E-09	4.800E-09	4.800E-09
E	5.908E-07	2.560E-07	1.476E-07	1.023E-07	7.700E-08	4.263E-08	1.941E-08	9.676E-09	6.294E-09	4.525E-09	4.525E-09	4.525E-09
ESE	7.332E-07	2.753E-07	1.404E-07	9.142E-08	6.614E-08	3.441E-08	1.362E-08	6.711E-09	4.206E-09	2.960E-09	2.960E-09	2.960E-09
SE	3.317E-07	1.273E-07	6.556E-08	4.269E-08	3.000E-08	1.589E-08	6.174E-09	2.989E-09	1.851E-09	1.291E-09	1.291E-09	1.291E-09
SSE	1.915E-07	7.357E-08	3.901E-08	2.579E-08	1.878E-08	9.757E-09	3.797E-09	1.826E-09	1.124E-09	7.802E-10	7.802E-10	7.802E-10

LGS - MIXED-MODE RELEASE TURBINE ENCLOSURE (NORTH VENT) 1991
 CORRECTED FOR OPEN TERRAIN RECIRCULATION

CORRECTED FOR OPEN TERRAIN RECIRCULATION USING SPECIAL

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) AT FIXED POINTS BY DOWNWIND SECTORS *****

DIRECTION

FROM SITE

	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	8.933E-09	2.638E-09	1.592E-09	1.021E-09	5.855E-10	3.734E-10	2.683E-10	2.030E-10	1.592E-10	1.281E-10	1.052E-10
SSW	3.989E-09	1.548E-09	9.080E-10	6.380E-10	3.652E-10	2.469E-10	1.802E-10	1.378E-10	1.087E-10	8.786E-11	7.231E-11
SW	3.291E-09	1.284E-09	7.708E-10	5.561E-10	3.272E-10	2.248E-10	1.657E-10	1.275E-10	1.010E-10	8.182E-11	6.743E-11
WSW	6.517E-09	2.472E-09	1.461E-09	1.045E-09	6.119E-10	4.180E-10	3.069E-10	2.355E-10	1.862E-10	1.506E-10	1.239E-10
W	9.885E-09	3.646E-09	2.052E-09	1.387E-09	7.672E-10	5.042E-10	3.610E-10	2.724E-10	2.131E-10	1.712E-10	1.404E-10
WNW	4.427E-09	1.669E-09	9.610E-10	6.661E-10	3.778E-10	2.532E-10	1.837E-10	1.399E-10	1.101E-10	8.877E-11	7.296E-11
NW	4.122E-09	1.593E-09	9.363E-10	6.591E-10	3.781E-10	2.558E-10	1.867E-10	1.428E-10	1.127E-10	9.105E-11	7.493E-11
NNW	5.101E-09	1.924E-09	1.109E-09	7.691E-10	4.358E-10	2.921E-10	2.119E-10	1.614E-10	1.270E-10	1.024E-10	8.418E-11
N	1.161E-08	4.062E-09	2.270E-09	1.522E-09	8.329E-10	5.448E-10	3.890E-10	2.931E-10	2.291E-10	1.839E-10	1.508E-10
NNE	1.787E-08	6.810E-09	3.796E-09	2.486E-09	1.308E-09	8.365E-10	5.885E-10	4.395E-10	3.417E-10	2.738E-10	2.244E-10
NE	1.527E-08	6.324E-09	3.625E-09	2.387E-09	1.241E-09	7.930E-10	5.577E-10	4.188E-10	3.246E-10	2.606E-10	2.141E-10
ENE	1.385E-08	6.206E-09	3.408E-09	2.211E-09	1.172E-09	7.442E-10	5.202E-10	3.867E-10	2.999E-10	2.399E-10	1.965E-10
E	2.585E-08	1.059E-08	5.746E-09	3.685E-09	1.932E-09	1.209E-09	8.358E-10	6.160E-10	4.746E-10	3.777E-10	3.083E-10
ESE	4.575E-08	1.643E-08	8.803E-09	5.613E-09	2.907E-09	1.821E-09	1.262E-09	9.311E-10	7.176E-10	5.710E-10	4.655E-10
SE	2.309E-08	8.431E-09	4.570E-09	2.939E-09	1.533E-09	9.665E-10	6.725E-10	4.979E-10	3.847E-10	3.066E-10	2.503E-10
SSE	1.109E-08	4.263E-09	2.335E-09	1.528E-09	8.162E-10	5.229E-10	3.679E-10	2.744E-10	2.131E-10	1.703E-10	1.393E-10

DIRECTION
FROM SITE

DISTANCES IN MILES

	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	8.780E-11	4.409E-11	2.824E-11	1.462E-11	9.076E-12	6.325E-12	4.684E-12	3.616E-12	2.881E-12	2.350E-12	1.953E-12
SSW	6.043E-11	3.094E-11	1.957E-11	1.016E-11	6.315E-12	4.410E-12	3.271E-12	2.531E-12	2.020E-12	1.651E-12	1.376E-12
SW	5.636E-11	2.892E-11	1.828E-11	9.474E-12	5.886E-12	4.100E-12	3.036E-12	2.345E-12	1.869E-12	1.526E-12	1.270E-12
WSW	1.035E-10	5.288E-11	3.330E-11	1.721E-11	1.066E-11	7.377E-12	5.436E-12	4.182E-12	3.323E-12	2.706E-12	2.248E-12
W	1.170E-10	5.926E-11	3.734E-11	1.921E-11	1.186E-11	8.193E-12	6.025E-12	4.629E-12	3.674E-12	2.989E-12	2.480E-12
WNW	6.090E-11	3.104E-11	1.960E-11	1.013E-11	6.270E-12	4.355E-12	3.214E-12	2.475E-12	1.968E-12	1.602E-12	1.331E-12
NW	6.261E-11	3.204E-11	2.026E-11	1.250E-11	6.521E-12	4.548E-12	3.369E-12	2.603E-12	2.075E-12	1.694E-12	1.410E-12
NNW	7.027E-11	3.583E-11	2.263E-11	1.170E-11	7.264E-12	5.071E-12	3.785E-12	2.963E-12	2.402E-12	1.996E-12	1.700E-12
N	1.257E-10	6.370E-11	4.021E-11	2.074E-11	1.282E-11	8.800E-12	6.543E-12	5.031E-12	3.994E-12	3.249E-12	2.695E-12
NNE	1.873E-10	9.521E-11	6.037E-11	3.148E-11	1.968E-11	1.400E-11	1.063E-11	8.454E-12	6.956E-12	5.856E-12	5.051E-12
NE	1.792E-10	9.202E-11	5.864E-11	3.094E-11	1.958E-11	1.432E-11	1.118E-11	9.153E-12	7.744E-12	6.687E-12	5.927E-12
ENE	1.641E-10	8.281E-11	5.223E-11	2.732E-11	1.729E-11	1.236E-11	9.519E-12	7.705E-12	6.479E-12	5.560E-12	4.891E-12
E	2.567E-10	1.280E-10	8.022E-11	4.120E-11	2.573E-11	1.798E-11	1.353E-11	1.069E-11	8.787E-12	7.389E-12	6.368E-12
ESE	3.870E-10	1.934E-10	1.210E-10	6.250E-11	3.846E-11	2.648E-11	1.942E-11	1.488E-11	1.177E-11	9.549E-12	7.900E-12
SE	2.083E-10	1.045E-10	6.588E-11	3.389E-11	2.092E-11	1.448E-11	1.066E-11	8.186E-12	6.491E-12	5.272E-12	4.365E-12
SSE	1.160E-10	5.832E-11	3.673E-11	1.897E-11	1.164E-11	8.029E-12	5.899E-12	4.526E-12	3.588E-12	2.915E-12	2.415E-12

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) BY DOWNWIND SECTORS *****

DIRECTION
FROM SITE

SEGMENT BOUNDARIES IN MILES

	1-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.540E-09	5.813E-10	2.702E-10	1.599E-10	1.055E-10	4.696E-11	1.518E-11	6.402E-12	3.641E-12	2.360E-12
SSW	9.303E-10	3.733E-10	1.810E-10	1.091E-10	7.252E-11	3.244E-11	1.054E-11	4.463E-12	2.548E-12	1.658E-12
SW	7.895E-10	3.328E-10	1.662E-10	1.013E-10	6.759E-11	3.029E-11	9.837E-12	4.150E-12	2.361E-12	1.532E-12
WSW	1.501E-09	6.219E-10	3.080E-10	1.867E-10	1.242E-10	5.545E-11	1.789E-11	7.475E-12	4.213E-12	2.719E-12
W	2.111E-09	7.880E-10	3.637E-10	2.141E-10	1.409E-10	6.236E-11	1.997E-11	8.304E-12	4.664E-12	3.004E-12
WNW	9.873E-10	3.865E-10	1.847E-10	1.105E-10	7.318E-11	3.259E-11	1.052E-11	4.411E-12	2.493E-12	1.610E-12
NW	9.591E-10	3.862E-10	1.876E-10	1.130E-10	7.514E-11	3.360E-11	1.090E-11	4.602E-12	2.621E-12	1.702E-12
NNW	1.139E-09	4.400E-10	2.131E-10	1.275E-10	8.443E-11	3.762E-11	1.216E-11	5.142E-12	2.984E-12	2.007E-12
N	2.336E-09	8.580E-10	3.922E-10	2.302E-10	1.513E-10	6.704E-11	2.155E-11	8.996E-12	5.068E-12	3.265E-12
NNE	3.883E-09	1.360E-09	5.950E-10	3.438E-10	2.253E-10	1.002E-10	3.265E-11	1.417E-11	8.505E-12	5.884E-12
NE	3.674E-09	1.297E-09	5.641E-10	3.266E-10	2.149E-10	9.655E-11	3.205E-11	1.447E-11	9.195E-12	6.718E-12
ENE	3.498E-09	1.213E-09	5.265E-10	3.018E-10	1.973E-10	8.727E-11	2.840E-11	1.254E-11	7.757E-12	5.585E-12
E	5.907E-09	2.000E-09	8.475E-10	4.781E-10	3.097E-10	1.354E-10	4.303E-11	1.827E-11	1.078E-11	7.425E-12
ESE	9.080E-09	3.026E-09	1.79E-09	7.227E-10	4.677E-10	2.046E-10	6.500E-11	2.685E-11	1.499E-11	9.598E-12
SE	4.703E-09	1.594E-09	6.811E-10	3.873E-10	2.515E-10	1.104E-10	3.523E-11	1.467E-11	8.246E-12	5.297E-12
SSE	2.405E-09	8.441E-10	3.78E-10	2.143E-10	1.398E-10	6.153E-11	1.962E-11	8.139E-12	4.561E-12	2.929E-12

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 61.00
 DIAMETER (METERS) 1.33

REP. WIND HEIGHT (METERS)
 BUILDING HEIGHT (METERS)

53.3
61.0

LGS - MIXED-MODE RELEASE TURBINE ENCLOSURE (NORTH VENT) 1991
 CORRECTED FOR OPEN TERRAIN RECIRCULATION
 SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
N	SITE BOUNDARY	S	0.81	1311.	1.233E-07	1.230E-07	1.107E-07	1.344E-09
N	SITE BOUNDARY	SSW	0.49	793.	1.890E-07	1.887E-07	1.733E-07	1.579E-09
N	SITE BOUNDARY	SW	0.61	975.	1.343E-07	1.340E-07	1.217E-07	9.987E-10
N	SITE BOUNDARY	WSW	0.55	884.	2.620E-07	2.616E-07	2.385E-07	2.174E-09
N	SITE BOUNDARY	W	0.57	914.	3.354E-07	3.349E-07	3.046E-07	3.033E-09
N	SITE BOUNDARY	WNW	0.55	884.	1.790E-07	1.787E-07	1.629E-07	1.463E-09
N	SITE BOUNDARY	NW	0.59	945.	1.981E-07	1.977E-07	1.786E-07	1.282E-09
N	SITE BOUNDARY	NNW	0.68	1097.	1.915E-07	1.910E-07	1.725E-07	1.259E-09
N	SITE BOUNDARY	N	0.63	1006.	4.711E-07	4.701E-07	4.248E-07	2.948E-09
N	SITE BOUNDARY	NNE	0.55	884.	9.122E-07	9.101E-07	8.308E-07	5.952E-09
N	SITE BOUNDARY	NE	0.53	853.	1.027E-06	1.025E-06	9.381E-07	5.847E-09
N	SITE BOUNDARY	ENE	0.72	1158.	5.246E-07	5.230E-07	4.747E-07	3.627E-09
N	SITE BOUNDARY	E	0.72	1158.	6.649E-07	6.632E-07	6.004E-07	6.124E-09
N	SITE BOUNDARY	ESE	0.51	823.	1.385E-06	1.384E-06	1.266E-06	1.587E-08
N	SITE BOUNDARY	SE	0.76	1219.	3.512E-07	3.506E-07	3.147E-07	4.500E-09
N	SITE BOUNDARY	SSE	0.78	1250.	1.945E-07	1.941E-07	1.740E-07	2.217E-09
N	RAILROAD TRACKS	S	0.19	300.	1.160E-06	1.159E-06	1.110E-06	1.018E-08
N	RAILROAD TRACKS	SSW	0.14	225.	1.515E-06	1.515E-06	1.463E-06	6.529E-09
N	RAILROAD TRACKS	SW	0.14	225.	1.448E-06	1.447E-06	1.398E-06	7.074E-09
N	RAILROAD TRACKS	WSW	0.14	225.	2.423E-06	2.422E-06	2.340E-06	1.437E-08
N	RAILROAD TRACKS	W	0.14	225.	3.357E-06	3.355E-06	3.242E-06	2.202E-08
N	RAILROAD TRACKS	WNW	0.21	345.	8.174E-07	8.168E-07	7.785E-07	5.418E-09
N	RAILROAD TRACKS	NW	0.28	450.	6.403E-07	6.396E-07	6.033E-07	3.536E-09
N	INFORMATION CTR	ESE	0.55	884.	1.247E-06	1.245E-06	1.134E-06	1.423E-08
N	FRICKS LOCK	WSW	0.28	450.	7.078E-07	7.072E-07	6.667E-07	5.570E-09

VENT AND BUILDING PARAMETERS.

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 61.00
 DIAMETER (METERS) 5.33
 EXIT VELOCITY (M/SEC) 7.68

REP. WIND HEIGHT (METERS) 53.3
 BUILDING HEIGHT (METERS) 61.0
 BLDG. MIN. CRS. SEC. AREA (SQ. METERS) 4596.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT:

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 1.536
 MIXED BETWEEN 1.536 AND 7.680
 GROUND LEVEL ABOVE 7.680

AT THE MEASURED WIND HEIGHT (0.1 METERS):

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED STABLE CONDITIONS
 MIXED LESS THAN 0.635
 GROUND LEVEL BETWEEN 0.635 AND 3.173
 ABOVE 3.173

WIND SPEED (METERS/SEC)
 UNSTABLE/NEUTRAL CONDITIONS
 LESS THAN 0.987
 BETWEEN 0.987 AND 4.937
 ABOVE 4.937

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/91 - 12/31/91

** SEMI-ANNUAL **

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	NNW	TOTAL
CALM																	
.51- 3.50	0	0	0	0	0	0	1	0	1	4	8	1	3	0	1	0	0
3.51- 7.50	3	2	2	5	4	3	5	2	4	12	35	15	16	11	11	5	19
7.51-12.50	6	1	0	2	2	1	0	1	5	14	6	1	8	24	11	6	88
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	5
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9	3	2	7	6	4	6	3	10	30	49	17	29	37	23	12	247

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	NNW	TOTAL
CALM																	
.51- 3.50	12	12	10	18	20	19	1	28	37	43	52	56	35	24	16	9	423
3.51- 7.50	56	41	30	51	44	34	34	53	62	82	56	51	82	99	74	52	901
7.51-12.50	25	13	12	7	11	10	12	9	9	16	4	3	47	125	74	61	438
12.51-18.50	1	0	0	0	0	0	0	0	0	1	0	0	20	31	10	4	67
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	94	66	52	76	75	63	78	90	108	112	110	108	188	280	174	126	1834

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/91 - 12/31/91

** SEMI-ANNUAL **

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	WNW	TOTAL
CALM																	0
.51- 3.50	12	16	16	21	14	9	24	32	72	132	136	105	86	58	18	10	761
3.51- 7.50	13	17	11	12	20	10	22	29	77	76	48	28	50	102	38	19	572
7.51-12.50	3	2	1	0	1	0	1	0	5	7	3	3	3	19	2	6	56
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	28	35	28	33	35	19	47	61	154	215	187	137	139	179	58	35	1390

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	WNW	TOTAL
CALM																	0
.51- 3.50	2	3	5	4	6	11	10	17	31	83	119	71	65	32	6	4	469
3.51- 7.50	1	2	1	0	2	0	0	1	0	3	3	1	2	13	1	0	30
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	5	6	4	6	11	10	18	31	86	122	72	67	45	7	4	499

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/91 - 12/31/91

** SEMI-ANNUAL **

STABILITY BASED ON: DELTA T
WIND MEASURED AT: 30.0 FEET
WIND THRESHOLD AT: .50 MPHSTABILITY CLASS G
BETWEEN 266.0 AND 26.0 FEET

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	MMW	TOTAL
CALM	0	1	2	1	3	0	5	7	17	41	78	58	29	10	1	1	0
.51- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	2	1	3	0	5	7	17	41	78	58	30	17	1	1	262

STABILITY BASED ON: DELTA T
WIND MEASURED AT: 30.0 FEET
WIND THRESHOLD AT: .50 MPHSTABILITY CLASS ALL
BETWEEN 266.0 AND 26.0 FEET

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	MMW	TOTAL
CALM	26	32	33	44	43	39	73	84	159	304	395	291	219	124	42	24	1932
.51- 3.50	73	63	46	68	71	47	66	88	146	186	202	126	166	235	128	76	1787
3.51- 7.50	34	17	13	9	14	11	13	10	21	44	19	11	62	173	89	73	613
7.51-12.50	1	0	0	0	0	0	0	0	0	1	0	1	22	33	10	5	73
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	134	112	92	121	128	97	152	182	326	535	616	429	473	566	269	178	4410

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/91 - 12/31/91

** SEMI-ANNUAL **

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4410

TOTAL NUMBER OF MISSING OBSERVATIONS: 6

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 %

MEAN WIND SPEED FOR THIS PERIOD: 4.7 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 5

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 9

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 6

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 9

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.27	2.77	5.60	41.59	31.52	11.32	5.94

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	1	1	3	8	32	8	1	0	2	0	0
B	0	2	2	0	1	0	5	2	3	13	36	27	19	8	4	0	0
C	9	3	2	7	6	4	6	3	10	30	49	17	29	37	23	12	0
D	94	66	52	76	75	63	78	90	108	142	112	110	188	280	174	126	0
E	28	35	28	33	35	19	47	61	154	215	187	137	139	179	58	35	0
F	3	5	6	4	8	11	10	18	31	86	122	72	67	45	7	4	0
G	0	1	2	1	3	0	5	7	17	41	78	58	30	17	1	1	0
TOTAL	134	112	92	121	128	97	152	182	326	535	616	429	473	566	269	178	0

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY CLASS A

BETWEEN 266.0 AND 26.0 FEET

STABILITY BASED ON: DELTA T

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.51- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	1	1	1	2	3	11	7	0	0	0	68
7.51-12.50	0	0	0	0	0	0	0	0	2	2	4	5	1	0	2	0	16
12.51-18.50	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	3
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	1	1	5	11	42	16	9	0	2	0	87

STABILITY CLASS B

BETWEEN 266.0 AND 26.0 FEET

STABILITY BASED ON: DELTA T

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.51- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	2	0	1	0	5	4	4	11	40	35	23	6	4	1	137
7.51-12.50	0	1	0	0	2	3	0	0	4	9	7	11	10	12	6	1	66
12.51-18.50	0	0	0	0	1	0	0	0	0	0	0	2	3	5	3	0	15
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	2	2	0	4	3	6	5	9	21	49	48	37	23	13	2	224

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	TOTAL
CALM	0	1	0	0	0	0	2	0	1	5	9	4	5	0	1	0
.51- 3.50	0	6	5	5	10	7	7	3	8	24	47	36	31	24	20	28
3.51- 7.50	11	3	0	2	8	4	0	1	7	26	10	11	27	49	30	248
7.51-12.50	0	0	0	0	1	0	0	0	0	0	0	3	7	13	17	200
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	44
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	16	10	5	7	19	11	9	4	16	55	66	54	70	87	68	521

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	TOTAL
CALM	28	24	26	43	38	39	48	47	58	61	82	85	61	48	30	1
.51- 3.50	127	93	92	170	136	65	50	65	104	163	102	92	152	219	147	740
3.51- 7.50	56	16	14	41	73	24	18	21	34	50	10	27	129	303	186	1876
7.51-12.50	2	0	0	0	7	3	0	5	0	2	0	6	55	109	34	1111
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	7	16	0	231
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	23
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	207	133	132	254	254	131	116	138	196	276	194	210	405	695	397	3983

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

see AMMAL

STABILITY CLASS E																	
STABILITY BASED ON: DELTA T																	
BETWEEN 266.0 AND 26.0 FEET																	
WIND MEASURED AT: 30.0 FEET																	
WIND THRESHOLD AT: .50 MPH																	
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET																	
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	TOTAL	
CALM	22	27	37	39	36	23	49	52	104	196	244	183	144	91	47	26	1320
5.1- 3.50	24	27	17	27	40	28	45	48	124	136	109	80	122	106	77	35	1135
3.51- 7.50	3	2	2	7	9	1	2	4	15	12	10	3	10	32	7	7	126
7.51-12.50	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	49	56	56	73	85	52	96	104	243	346	363	267	276	3	131	68	2589

STABILITY CLASS F																	
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET																	
WIND MEASURED AT: 30.0 FEET																	
WIND THRESHOLD AT: .50 MPH																	
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET																	
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	TOTAL	
CALM	6	7	7	15	15	20	22	31	54	137	167	106	128	59	20	12	806
.51- 3.50	2	4	2	3	5	0	0	2	2	4	5	3	6	19	2	1	60
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	11	9	18	20	20	22	33	56	141	172	109	134	92	22	13	872

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET STABILITY CLASS G
 WIND MEASURED AT: 30.0 FEET
 WIND THRESHOLD AT: .50 MPH
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET
 SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	3	3	6	3	11	7	11	12	32	62	108	94	64	31	8	4	8
.51- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	1	9	0	0	459
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	3	6	3	11	7	11	12	32	62	108	94	65	40	8	4	477

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET STABILITY CLASS ALL
 WIND MEASURED AT: 30.0 FEET
 WIND THRESHOLD AT: .50 MPH
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET
 SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	59	62	76	100	100	89	133	142	250	462	612	472	403	229	106	64	18
.51- 3.50	158	131	118	205	192	100	108	123	243	347	341	257	342	473	250	146	3359
3.51- 7.50	64	22	16	50	92	32	20	26	62	99	41	57	177	398	231	134	3534
7.51-12.50	2	0	0	0	9	3	0	6	2	4	0	12	66	127	54	11	1521
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	7	17	0	0	296
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	24
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL	283	215	210	355	393	224	261	297	557	912	994	798	396	1244	641	354	8753

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 8753

TOTAL NUMBER OF MISSING OBSERVATIONS: 7

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 %

MEAN WIND SPEED FOR THIS PERIOD: 5.2 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 7

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 9

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 56

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 61

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.99	2.56	5.95	45.50	29.50	9.96	5.45

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	1	1	5	11	42	16	9	0	2	0	0
B	0	2	2	0	4	3	6	5	9	21	49	48	37	23	13	2	0
C	16	10	5	7	19	11	9	4	16	55	66	54	70	87	68	24	0
D	207	133	132	254	254	131	116	138	196	276	194	210	405	695	397	244	1
E	49	56	56	73	85	52	96	104	243	346	363	267	276	319	131	68	5
F	8	11	9	18	20	20	22	33	56	141	172	109	134	80	22	13	4
G	3	3	6	3	11	7	11	12	32	62	108	94	65	40	8	4	8
TOTAL	283	215	210	355	393	224	261	297	557	912	994	798	996	1244	641	355	18

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 F1 LEVEL - July through December 1991
 SITE IDENTIFIER:
 DATA PERIOD EXAMINED: 7/ 1/91 - 12/ 1/91

00 SEMI-ANNUAL 00

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THERMISTOR AT: 50 MPH

WIND: THREE STOCKS 11:30 AM

SPEED (MPH)	WIND DIRECTION																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	NNW	
CALM																	0
.51-3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51-7.50	0	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0	9
7.51-12.50	0	0	0	0	0	0	0	0	1	5	20	6	4	0	0	0	38
12.51-18.50	0	0	0	0	0	0	0	0	2	1	2	2	0	0	1	0	8
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	3	10	27	8	4	0	1	0	55

	STABILITY BASED ON: DELTA T	BETWEEN 266.0 AND 274.0 FEET	STABILITY CLASS B
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

STABILITY BASED ON: DELTA T

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	MME	ME	E.M.C.	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.51- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
3.51- 7.50	0	0	0	0	1	3	1	0	2	3	10	6	2	0	0	1	29
7.51-12.50	0	2	2	0	0	0	1	2	2	5	15	18	15	3	3	1	69
12.51-18.50	0	0	0	0	0	0	0	0	0	6	2	4	5	3	2	0	22
18.51-24.50	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	2	2	0	1	3	2	2	4	14	28	28	22	6	5	3	122

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 FT LEVEL - July through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/91 - 12/31/91

** SEMI-ANNUAL **

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	MMW	TOTAL
CALM	0	0	0	0	0	0	0	0	1	2	0	0	0	1	1	0	0
.51- 3.50	0	0	0	0	0	0	0	0	1	2	0	0	0	1	1	0	5
3.51- 7.50	1	1	2	2	3	3	1	2	1	5	17	7	6	1	3	4	59
7.51-12.50	4	1	2	4	1	3	5	0	5	12	19	8	12	11	10	8	105
12.51-18.50	3	4	0	0	1	0	0	0	4	10	6	2	7	14	9	6	66
18.51-24.50	0	0	0	0	0	0	0	0	1	1	1	0	2	6	0	0	11
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	8	6	4	6	5	6	6	2	12	30	43	17	28	33	23	18	247

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	MMW	TOTAL
CALM	8	7	6	8	15	7	13	6	12	17	9	8	10	8	3	4	141
.51- 3.50	8	7	6	8	15	7	13	6	12	17	9	8	10	8	3	4	141
3.51- 7.50	25	31	16	49	30	33	23	22	32	43	36	29	33	42	30	29	503
7.51-12.50	46	37	30	30	30	22	27	33	59	62	34	28	39	75	60	54	666
12.51-18.50	31	13	14	2	8	6	6	10	13	22	6	6	38	81	81	37	374
18.51-24.50	2	0	0	0	0	0	0	0	0	3	0	1	20	39	18	11	94
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	6	14	1	0	21
TOTAL	112	88	66	89	83	68	69	71	116	147	85	72	146	259	193	135	1799

PROGRAM: JFD VERSION: PC-1.1

Lindrick Generating Station - JFD 175 FT LEVEL - July through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/91 - 12/31/91

** SEMI-ANNUAL **

STABILITY CLASS E
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET:

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	4	2	3	3	5	2	7	10	12	8	7	5	8	4	8	1	89
3.51- 7.50	15	8	9	20	18	17	13	15	23	42	55	45	41	42	19	10	392
7.51-12.50	22	19	25	10	10	7	10	23	63	100	66	54	37	111	58	22	637
12.51-18.50	12	6	5	0	3	6	4	10	28	30	15	8	9	41	16	13	206
18.51-24.50	2	0	1	0	0	0	0	0	1	3	1	3	1	6	2	1	21
>24.50	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2
TOTAL	55	35	43	33	36	32	34	58	128	183	144	115	97	204	103	47	1347

STABILITY CLASS F
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET:

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	3	2	2	0	2	2	6	12	10	7	4	8	10	9	7	3	87
3.51- 7.50	7	4	9	4	7	2	8	5	19	7	21	21	30	48	35	15	242
7.51-12.50	0	5	1	1	0	0	2	2	6	7	7	20	9	54	23	2	139
12.51-18.50	1	0	1	0	0	2	0	0	0	1	1	2	2	13	0	0	23
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	11	13	5	9	6	16	19	35	22	33	51	51	124	65	20	491

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 FT LEVEL - July through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/91 - 12/31/91

** SEMI-ANNUAL **

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	2	2	1	2	5	2	4	1	8	2	7	6	11	11	8	2	74
3.51- 7.50	3	1	0	1	0	1	0	9	3	10	7	5	12	45	24	7	128
7.51-12.50	1	1	1	0	0	0	0	1	2	3	5	2	4	13	11	2	46
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	4	2	3	5	3	4	11	13	15	19	13	27	73	43	11	252

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	17	13	12	13	27	13	30	29	43	36	27	27	39	33	27	11	397
3.51- 7.50	51	45	36	76	59	59	46	53	80	114	151	113	124	178	111	66	1362
7.51-12.50	73	65	61	45	41	32	45	63	138	194	166	136	120	267	165	89	1700
12.51-18.50	47	23	20	2	12	14	10	20	47	70	32	24	61	156	109	56	703
18.51-24.50	4	0	1	0	0	0	0	0	2	7	3	4	23	51	20	12	127
>24.50	0	0	0	0	0	0	0	0	1	0	0	0	8	14	1	0	24
TOTAL	192	146	130	136	139	118	131	165	311	421	379	304	375	699	433	234	4, 3

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 FT LEVEL - July through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/91 - 12/31/91

** SEMI-ANNUAL **

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4313

TOTAL NUMBER OF MISSING OBSERVATIONS: 103

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.7 %

MEAN WIND SPEED FOR THIS PERIOD: 9.0 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.28	2.83	5.73	41.71	31.23	11.38	5.84

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	2	3	10	27	8	4	0	1	0	0
B	0	2	2	0	1	3	1	2	4	14	28	28	22	6	5	3	0
C	8	6	4	6	5	6	6	2	12	30	43	17	28	33	23	18	0
D	112	88	66	89	83	68	69	71	116	147	85	72	146	259	193	135	0
E	55	35	43	33	36	32	34	58	128	183	144	115	97	204	103	47	0
F	11	11	13	5	9	6	16	19	35	22	33	51	51	12	65	20	0
G	6	4	2	3	5	3	4	11	13	15	19	13	27	7	43	11	0
TOTAL	192	146	130	136	139	118	131	165	311	421	379	304	375	699	433	234	0

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.51- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	4	5	1	0	0	0	0	10
7.51-12.50	0	0	0	0	0	0	0	2	1	7	28	10	11	0	0	0	59
12.51-18.50	0	0	0	0	0	0	0	0	2	1	1	4	1	0	1	0	13
18.51-24.50	0	0	0	0	0	0	0	0	2	0	0	1	1	0	0	0	4
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	2	5	2	37	16	13	0	1	0	86

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
.51- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
3.51- 7.50	0	0	0	0	1	3	2	0	2	4	10	9	5	0	0	1	37
7.51-12.50	0	2	2	0	0	1	1	4	3	12	20	24	25	5	5	3	107
12.51-18.50	0	0	0	0	0	5	0	0	3	8	5	11	11	7	8	0	58
18.51-24.50	0	0	0	0	0	0	0	0	2	0	1	2	3	5	5	0	18
>24.50	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3
TOTAL	0	2	2	0	1	9	3	4	10	24	36	48	45	17	18	5	224

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	0	0	0	0	0	0	0	0	1	2	0	1	0	1	1	0	6
3.51- 7.50	1	4	4	2	5	6	1	2	3	7	20	12	11	7	6	9	100
7.51-12.50	8	6	3	4	5	9	8	0	7	27	26	19	29	17	22	14	204
12.51-18.50	7	4	0	0	1	5	0	0	5	18	11	15	20	29	27	10	152
18.51-24.50	0	0	0	0	0	0	0	0	1	1	1	1	7	16	13	4	44
>24.50	0	0	0	0	0	0	0	0	0	0	0	2	5	4	3	1	15
TOTAL	16	14	7	6	11	20	9	2	17	55	58	50	72	74	72	38	521

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	18	11	12	11	22	14	19	15	20	24	17	20	21	12	10	8	254
3.51- 7.50	50	65	39	107	66	63	43	35	50	66	54	47	70	85	63	47	950
7.51-12.50	99	89	81	113	132	46	41	41	96	118	59	51	72	167	141	95	1441
12.51-18.50	55	25	15	10	53	24	12	22	39	69	14	24	91	200	192	87	932
18.51-24.50	7	1	0	0	5	1	1	5	1	5	0	7	55	105	60	21	274
>24.50	0	0	0	0	0	0	0	0	0	0	0	4	13	71	8	1	97
TOTAL	229	191	147	241	278	148	116	118	206	282	144	153	322	640	474	259	3948

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	7	5	8	7	6	6	10	21	18	15	14	6	11	9	11	2	156
3.51- 7.50	25	15	19	48	26	30	33	26	41	60	83	75	85	93	40	16	715
7.51-12.50	37	29	35	19	24	16	18	46	96	152	130	106	94	211	104	41	1158
12.51-18.50	16	10	9	2	15	13	12	16	57	63	36	26	30	96	37	24	462
18.51-24.50	2	0	1	0	5	1	0	1	3	6	8	3	4	12	5	1	50
>24.50	0	0	0	0	0	0	0	0	1	2	1	0	1	0	0	0	5
TOTAL	87	59	72	76	74	66	73	110	216	298	272	216	225	421	197	84	2546

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	3	3	6	2	7	5	7	12	16	17	11		12	12	13	4	140
3.51- 7.50	16	10	17	9	10	6	13	10	24	18	41	11	55	76	57	23	425
7.51-12.50	6	8	3	2	4	1	3	3	8	8	20	33	20	95	31	6	251
12.51-18.50	2	1	1	0	1	4	0	0	1	2	5	2	2	23	1	1	46
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	27	22	27	13	22	16	23	25	49	45	77	85	89	208	102	34	864

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY CLASS G
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	3	2	2	3	6	2	8	3	12	9	14	13	16	13	8	3	117
3.51- 7.50	9	2	1	5	2	6	1	10	7	15	19	13	29	73	41	13	246
7.51-12.50	1	2	1	0	1	2	0	1	2	3	9	5	6	42	18	3	96
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	0	0	7	0	0	8
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	13	6	4	8	9	10	9	14	21	21	43	31	51	135	67	19	467

STABILITY CLASS ALL
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	31	21	28	23	41	27	44	51	67	67	56	50	60	47	43	18	674
3.51- 7.50	101	96	80	171	110	114	93	83	127	174	232	197	255	334	207	109	2483
7.51-12.50	151	136	125	138	166	75	71	97	213	327	292	248	257	537	321	162	3316
12.51-18.50	80	40	25	12	70	51	24	38	107	161	76	82	155	362	266	122	1671
18.51-24.50	9	1	1	0	8	2	1	6	9	12	10	14	70	140	83	26	392
>24.50	0	0	0	0	0	0	0	0	1	2	1	8	20	75	11	2	120
TOTAL	372	294	259	344	395	269	233	275	524	743	667	599	817	1495	931	439	8656

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1991

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/91 - 12/31/91

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 170.0 FEET

WIND THRESHOLD AT: .50 MPH

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 8656

TOTAL NUMBER OF MISSING OBSERVATIONS: 104

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.8 %

MEAN WIND SPEED FOR THIS PERIOD: 9.8 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 19

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 21

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 50

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 70

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.99	2.59	6.02	45.61	29.41	9.98	5.40

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	2	5	12	37	16	13	0	1	0	0
B	0	2	2	0	1	9	3	4	10	24	36	48	45	17	18	5	0
C	16	14	7	6	11	20	9	2	17	55	58	50	72	74	72	38	0
D	229	191	147	241	278	148	116	118	206	282	144	150	322	640	474	259	0
E	87	59	72	76	74	66	73	110	216	298	272	216	225	421	197	84	0
F	27	22	27	13	22	16	23	25	49	45	77	85	89	208	102	34	0
G	13	6	4	8	9	10	9	14	21	27	43	31	51	135	67	19	0
TOTAL	372	294	259	344	395	269	233	275	524	43	667	599	817	1495	931	439	0