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DEC 10 1973

Jacob Kastner, Chief, Radiological Assessment Branch, L

ANNUAL AVERAGE I/Q FOR BIG ROCK POINT

Enclosed are the calculated annual average atmospheric dispersion values for Big Rock Point.

These values are based on joint frequency distributions of wind speed and direction by atmospheric stability for the Big Rock Point site during the period 2/10/1961 - 2/11/1962 for the ground level release and the period 3/1962 - 2/1963 for the elevated release. Because of the way the stability classes were divided it was necessary to run two cases for the elevated release. In one case classes A, B, C and D were combined to form B (this is the more conservative case) and in the other A, B, C and D were combined to form D.

William P. Gammill, Chief
Site Analysis Branch
Directorate of Licensing

Enclosure:
As stated

cc: w/enclosure
M. Parsont
D. Nelson
E. Markee

8102030231

MENU

OFFICE ▶	L:SAB	L:SAB	L:SAB			
SURNAME ▶	GPT GTuri:jab	EHMarkee	WPGammill			
DATE ▶	12/7/73	12/7/73	12/7/73			

1/61-1/62 WIND DATA

BIG ROCK
ANNUAL AVERAGE CH1/Q (SEC/MI/TEM CUBED)
DIRECTION FROM SITE

DISTANCE IN MILES

	0.500	1.000	2.000	3.000	4.000	5.000	10.000	20.000	30.000	40.000	50.000
180.0	0.172E-05	0.601E-06	0.213E-06	0.117E-06	0.765E-07	0.553E-07	0.207E-07	0.674E-08	0.440E-08	0.334E-08	0.250E-08
202.5	0.140E-05	0.480E-06	0.173E-06	0.951E-07	0.623E-07	0.450E-07	0.169E-07	0.673E-08	0.397E-08	0.273E-08	0.204E-08
225.0	0.709E-06	0.263E-06	0.901E-07	0.340E-07	0.340E-07	0.246E-07	0.929E-08	0.373E-08	0.221E-08	0.152E-08	0.114E-08
247.5	0.263E-05	0.951E-06	0.350E-06	0.197E-06	0.131E-06	0.962E-07	0.377E-07	0.154E-07	0.930E-08	0.654E-08	0.495E-08
270.0	0.241E-05	0.101E-05	0.372E-06	0.209E-06	0.139E-06	0.162E-06	0.598E-07	0.164E-07	0.904E-08	0.605E-08	0.517E-08
292.5	0.343E-05	0.124E-05	0.449E-06	0.251E-06	0.167E-06	0.122E-06	0.473E-07	0.193E-07	0.115E-07	0.794E-08	0.596E-08
315.0	0.343E-05	0.124E-05	0.449E-06	0.251E-06	0.167E-06	0.122E-06	0.473E-07	0.193E-07	0.115E-07	0.794E-08	0.596E-08
337.5	0.343E-05	0.124E-05	0.449E-06	0.251E-06	0.167E-06	0.122E-06	0.473E-07	0.193E-07	0.115E-07	0.794E-08	0.596E-08
0.0	0.343E-05	0.124E-05	0.449E-06	0.251E-06	0.167E-06	0.122E-06	0.473E-07	0.193E-07	0.115E-07	0.794E-08	0.596E-08
22.5	0.343E-05	0.124E-05	0.449E-06	0.251E-06	0.167E-06	0.122E-06	0.473E-07	0.193E-07	0.115E-07	0.794E-08	0.596E-08
45.0	0.343E-05	0.124E-05	0.449E-06	0.251E-06	0.167E-06	0.122E-06	0.473E-07	0.193E-07	0.115E-07	0.794E-08	0.596E-08
67.5	0.220E-05	0.793E-06	0.286E-06	0.160E-06	0.106E-06	0.774E-07	0.500E-07	0.122E-07	0.722E-08	0.496E-08	0.374E-08
90.0	0.209E-05	0.750E-06	0.270E-06	0.150E-06	0.995E-07	0.725E-07	0.279E-07	0.113E-07	0.669E-08	0.462E-08	0.346E-08
112.5	0.172E-05	0.601E-06	0.213E-06	0.117E-06	0.765E-07	0.553E-07	0.207E-07	0.674E-08	0.440E-08	0.334E-08	0.250E-08
135.0	0.172E-05	0.601E-06	0.213E-06	0.117E-06	0.765E-07	0.553E-07	0.207E-07	0.674E-08	0.440E-08	0.334E-08	0.250E-08
157.5	0.172E-05	0.601E-06	0.213E-06	0.117E-06	0.765E-07	0.553E-07	0.207E-07	0.674E-08	0.440E-08	0.334E-08	0.250E-08

CH1/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES

DIRECTION FROM SITE	5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
180.0	0.959E-06	0.337E-06	0.155E-06	0.936E-07	0.646E-07	0.314E-07	0.121E-07	0.618E-08	0.398E-08	0.287E-08
202.5	0.778E-06	0.274E-06	0.126E-06	0.762E-07	0.528E-07	0.256E-07	0.990E-08	0.505E-08	0.326E-08	0.235E-08
225.0	0.419E-06	0.148E-06	0.684E-07	0.415E-07	0.288E-07	0.141E-07	0.547E-08	0.261E-08	0.161E-08	0.131E-08
247.5	0.149E-05	0.543E-06	0.257E-06	0.159E-06	0.112E-06	0.561E-07	0.226E-07	0.118E-07	0.775E-08	0.565E-08
270.0	0.159E-05	0.578E-06	0.273E-06	0.169E-06	0.119E-06	0.593E-07	0.238E-07	0.124E-07	0.812E-08	0.591E-08
292.5	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
315.0	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
337.5	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
0.0	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
22.5	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
45.0	0.125E-05	0.449E-06	0.209E-06	0.129E-06	0.900E-07	0.449E-07	0.178E-07	0.916E-08	0.593E-08	0.428E-08
67.5	0.118E-05	0.424E-06	0.197E-06	0.121E-06	0.840E-07	0.419E-07	0.165E-07	0.850E-08	0.550E-08	0.397E-08
90.0	0.959E-06	0.337E-06	0.155E-06	0.936E-07	0.646E-07	0.314E-07	0.121E-07	0.618E-08	0.398E-08	0.287E-08
112.5	0.959E-06	0.337E-06	0.155E-06	0.936E-07	0.646E-07	0.314E-07	0.121E-07	0.618E-08	0.398E-08	0.287E-08
135.0	0.959E-06	0.337E-06	0.155E-06	0.936E-07	0.646E-07	0.314E-07	0.121E-07	0.618E-08	0.398E-08	0.287E-08
157.5	0.959E-06	0.337E-06	0.155E-06	0.936E-07	0.646E-07	0.314E-07	0.121E-07	0.618E-08	0.398E-08	0.287E-08

SMOOTHED SEGMENTS (CH1/Q AVERAGED WITH VALUES FROM NEIGHBORING SEGMENTS)

SEGMENT BOUNDARIES IN MILES

DIRECTION FROM SITE	5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
180.0	0.918E-06	0.321E-06	0.147E-06	0.892E-07	0.616E-07	0.300E-07	0.116E-07	0.590E-08	0.380E-08	0.274E-08
202.5	0.734E-06	0.254E-06	0.119E-06	0.719E-07	0.497E-07	0.242E-07	0.935E-08	0.477E-08	0.308E-08	0.222E-08
225.0	0.776E-06	0.278E-06	0.130E-06	0.796E-07	0.555E-07	0.275E-07	0.109E-07	0.562E-08	0.366E-08	0.265E-08
247.5	0.125E-05	0.451E-06	0.214E-06	0.132E-06	0.924E-07	0.464E-07	0.186E-07	0.972E-08	0.636E-08	0.463E-08
270.0	0.165E-05	0.601E-06	0.283E-06	0.175E-06	0.122E-06	0.614E-07	0.246E-07	0.124E-07	0.835E-08	0.608E-08
292.5	0.186E-05	0.671E-06	0.315E-06	0.194E-06	0.136E-06	0.679E-07	0.271E-07	0.140E-07	0.911E-08	0.660E-08
315.0	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
337.5	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
0.0	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
22.5	0.194E-05	0.702E-06	0.329E-06	0.202E-06	0.142E-06	0.707E-07	0.282E-07	0.145E-07	0.943E-08	0.683E-08
45.0	0.177E-05	0.639E-06	0.299E-06	0.184E-06	0.129E-06	0.642E-07	0.256E-07	0.132E-07	0.856E-08	0.620E-08
67.5	0.140E-05	0.506E-06	0.236E-06	0.145E-06	0.101E-06	0.506E-07	0.201E-07	0.103E-07	0.670E-08	0.484E-08
90.0	0.114E-05	0.406E-06	0.190E-06	0.116E-06	0.808E-07	0.400E-07	0.158E-07	0.697E-08	0.522E-08	0.375E-08
112.5	0.101E-05	0.354E-06	0.165E-06	0.100E-06	0.695E-07	0.340E-07	0.132E-07	0.618E-08	0.398E-08	0.287E-08
135.0	0.101E-05	0.354E-06	0.165E-06	0.100E-06	0.695E-07	0.340E-07	0.132E-07	0.618E-08	0.398E-08	0.287E-08
157.5	0.101E-05	0.354E-06	0.165E-06	0.100E-06	0.695E-07	0.340E-07	0.132E-07	0.618E-08	0.398E-08	0.287E-08

157.5 0.959E+06 0.337E+06 0.155E+06 0.936E+07 0.646E+07 0.314E+07 0.121E+07 0.618E+08 0.398E+08 0.287E+08

1.11E+06
1.11E+06

1.11E+06
1.11E+06

VALUES OF CHI/0 AVERAGED OVER ALL SEGMENTS AT A GIVEN RADIUS

SEGMENT BOUNDARIES IN MILES									
.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
0.139E-05	0.499E-06	0.233E-06	0.143E-06	0.996E-07	0.495E-07	0.196E-07	0.101E-07	0.656E-08	0.475E-08

ANNUAL AVERAGES AT THE SITE BOUNDARIES

DIRECTION DISTANCE CHI/0
FROM SITE MILES SEC/METER CUBED

180.0	0.663	0.112E-05
202.5	0.642	0.872E-06
225.0	0.564	0.624E-06
247.5	0.508	0.257E-05
270.0	0.436	0.344E-05
292.5	0.132	0.293E-04
315.0	0.076	0.784E-04
337.5	0.066	0.995E-04
0.0	0.057	0.139E-03
22.5	0.066	0.995E-04
45.0	0.072	0.856E-04
67.5	0.094	0.338E-04
90.0	0.186	0.969E-05
112.5	0.530	0.157E-05
135.0	0.530	0.157E-05
157.5	0.583	0.136E-05

DIRECTION AVERAGE AVERAGE INVERSE
FROM SITE WIND SPEED WIND SPEED
M/SEC SEC/H

180.0	6.186	0.236
202.5	6.052	0.242
225.0	5.296	0.276
247.5	5.160	0.306
270.0	4.826	0.326
292.5	3.734	0.392
315.0	3.734	0.392
337.5	3.734	0.392
0.0	3.734	0.392
22.5	3.734	0.392
45.0	3.734	0.392
67.5	6.060	0.246
90.0	6.084	0.244
112.5	6.186	0.236
135.0	6.186	0.236
157.5	6.186	0.236

BIG ROCK ELEVATED RELEASE		3/62-2/63		256 FT WIND DATA		USING B, E, F, G STABILITIES					
ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)		DISTANCE IN MILES									
DIRECTION	0.500	1.000	2.000	3.000	4.000	5.000	10.000	20.000	30.000	40.000	50.000
FROM SITE											
180.0	0.608E-07	0.297E-07	0.303E-07	0.267E-07	0.226E-07	0.191E-07	0.101E-07	0.485E-08	0.310E-08	0.224E-08	0.173E-08
202.5	0.495E-07	0.254E-07	0.271E-07	0.242E-07	0.207E-07	0.176E-07	0.940E-08	0.457E-08	0.294E-08	0.213E-08	0.165E-08
225.0	0.273E-07	0.169E-07	0.208E-07	0.194E-07	0.169E-07	0.146E-07	0.809E-08	0.403E-08	0.261E-08	0.191E-08	0.146E-08
247.5	0.176E-07	0.192E-07	0.302E-07	0.294E-07	0.262E-07	0.230E-07	0.130E-07	0.660E-08	0.431E-08	0.315E-08	0.246E-08
270.0	0.206E-07	0.193E-07	0.294E-07	0.287E-07	0.256E-07	0.225E-07	0.128E-07	0.645E-08	0.420E-08	0.307E-08	0.239E-08
292.5	0.309E-07	0.195E-07	0.258E-07	0.251E-07	0.225E-07	0.199E-07	0.116E-07	0.598E-08	0.394E-08	0.291E-08	0.228E-08
315.0	0.309E-07	0.195E-07	0.258E-07	0.251E-07	0.225E-07	0.199E-07	0.116E-07	0.598E-08	0.394E-08	0.291E-08	0.228E-08
337.5	0.309E-07	0.195E-07	0.258E-07	0.251E-07	0.225E-07	0.199E-07	0.116E-07	0.598E-08	0.394E-08	0.291E-08	0.228E-08
0.0	0.309E-07	0.195E-07	0.258E-07	0.251E-07	0.225E-07	0.199E-07	0.116E-07	0.598E-08	0.394E-08	0.291E-08	0.228E-08
22.5	0.309E-07	0.195E-07	0.258E-07	0.251E-07	0.225E-07	0.199E-07	0.116E-07	0.598E-08	0.394E-08	0.291E-08	0.228E-08
45.0	0.309E-07	0.195E-07	0.258E-07	0.251E-07	0.225E-07	0.199E-07	0.116E-07	0.598E-08	0.394E-08	0.291E-08	0.228E-08
67.5	0.538E-07	0.288E-07	0.331E-07	0.307E-07	0.269E-07	0.234E-07	0.132E-07	0.670E-08	0.439E-08	0.322E-08	0.252E-08
90.0	0.554E-07	0.290E-07	0.325E-07	0.299E-07	0.260E-07	0.225E-07	0.125E-07	0.630E-08	0.411E-08	0.301E-08	0.235E-08
112.5	0.608E-07	0.297E-07	0.303E-07	0.267E-07	0.226E-07	0.191E-07	0.101E-07	0.485E-08	0.310E-08	0.224E-08	0.173E-08
135.0	0.608E-07	0.297E-07	0.303E-07	0.267E-07	0.226E-07	0.191E-07	0.101E-07	0.485E-08	0.310E-08	0.224E-08	0.173E-08
157.5	0.608E-07	0.297E-07	0.303E-07	0.267E-07	0.226E-07	0.191E-07	0.101E-07	0.485E-08	0.310E-08	0.224E-08	0.173E-08

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
180.0	0.383E-07	0.302E-07	0.283E-07	0.244E-07	0.207E-07	0.132E-07	0.657E-08	0.380E-08	0.261E-08	0.196E-08
202.5	0.319E-07	0.267E-07	0.256E-07	0.223E-07	0.190E-07	0.123E-07	0.617E-08	0.359E-08	0.247E-08	0.186E-08
225.0	0.193E-07	0.196E-07	0.201E-07	0.180E-07	0.157E-07	0.104E-07	0.539E-08	0.318E-08	0.221E-08	0.167E-08
247.5	0.173E-07	0.267E-07	0.300E-07	0.277E-07	0.245E-07	0.166E-07	0.877E-08	0.523E-08	0.365E-08	0.276E-08
270.0	0.184E-07	0.261E-07	0.292E-07	0.270E-07	0.239E-07	0.163E-07	0.858E-08	0.511E-08	0.356E-08	0.269E-08
292.5	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
315.0	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
337.5	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
0.0	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
22.5	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
45.0	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
67.5	0.355E-07	0.317E-07	0.319E-07	0.287E-07	0.250E-07	0.168E-07	0.890E-08	0.532E-08	0.372E-08	0.283E-08
90.0	0.361E-07	0.314E-07	0.311E-07	0.277E-07	0.241E-07	0.161E-07	0.839E-08	0.499E-08	0.348E-08	0.264E-08
112.5	0.383E-07	0.302E-07	0.283E-07	0.244E-07	0.207E-07	0.132E-07	0.657E-08	0.380E-08	0.261E-08	0.196E-08
135.0	0.383E-07	0.302E-07	0.283E-07	0.244E-07	0.207E-07	0.132E-07	0.657E-08	0.380E-08	0.261E-08	0.196E-08
157.5	0.383E-07	0.302E-07	0.283E-07	0.244E-07	0.207E-07	0.132E-07	0.657E-08	0.380E-08	0.261E-08	0.196E-08

SMOOTHED SEGMENTS (CHI/Q AVERAGED WITH VALUES FROM NEIGHBORING SEGMENTS)

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
180.0	0.367E-07	0.293E-07	0.276E-07	0.239E-07	0.203E-07	0.130E-07	0.647E-08	0.375E-08	0.257E-08	0.193E-08
202.5	0.304E-07	0.258E-07	0.249E-07	0.217E-07	0.186E-07	0.120E-07	0.608E-08	0.354E-08	0.244E-08	0.184E-08
225.0	0.220E-07	0.232E-07	0.239E-07	0.215E-07	0.187E-07	0.124E-07	0.643E-08	0.379E-08	0.263E-08	0.199E-08
247.5	0.181E-07	0.248E-07	0.273E-07	0.251E-07	0.221E-07	0.150E-07	0.788E-08	0.468E-08	0.326E-08	0.247E-08
270.0	0.190E-07	0.257E-07	0.285E-07	0.264E-07	0.233E-07	0.159E-07	0.845E-08	0.505E-08	0.355E-08	0.268E-08
292.5	0.212E-07	0.243E-07	0.264E-07	0.245E-07	0.218E-07	0.150E-07	0.806E-08	0.485E-08	0.340E-08	0.259E-08
315.0	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
337.5	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
0.0	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
22.5	0.221E-07	0.237E-07	0.255E-07	0.237E-07	0.211E-07	0.146E-07	0.789E-08	0.476E-08	0.335E-08	0.256E-08
45.0	0.254E-07	0.257E-07	0.271E-07	0.249E-07	0.221E-07	0.151E-07	0.814E-08	0.490E-08	0.344E-08	0.263E-08
67.5	0.323E-07	0.297E-07	0.301E-07	0.272E-07	0.238E-07	0.161E-07	0.852E-08	0.510E-08	0.357E-08	0.272E-08
90.0	0.365E-07	0.312E-07	0.306E-07	0.271E-07	0.235E-07	0.155E-07	0.807E-08	0.477E-08	0.332E-08	0.252E-08
112.5	0.378E-07	0.305E-07	0.290E-07	0.252E-07	0.215E-07	0.139E-07	0.703E-08	0.410E-08	0.283E-08	0.213E-08
135.0	0.383E-07	0.302E-07	0.283E-07	0.244E-07	0.207E-07	0.132E-07	0.657E-08	0.380E-08	0.261E-08	0.196E-08

157.5 0.363E+07 0.302E+07 0.263E+07 0.244E+07 0.207E+07 0.132E+07 0.657E+06 0.360E+06 0.261E+06 0.196E+06

1.11E+06

1.11E+06

22,5	5,763	0,263
45,0	5,763	0,263
67,5	6,462	0,231
90,0	6,464	0,233
112,5	6,482	0,243
135,0	6,482	0,243
157,5	6,482	0,243

1000 1000 1000

1000 1000 1000

VALUES OF CHI/Q AVERAGED OVER ALL SEGMENTS AT A GIVEN RADIUS USING H, E, F, G STABILITIES

SEGMENT BOUNDARIES IN MILES									
.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
0.278E-07	0.266E-07	0.271E-07	0.244E-07	0.213E-07	0.143E-07	0.749E-08	0.445E-08	0.310E-08	0.235E-08

AVERAGE EFFECTIVE STACK HEIGHT IN METERS FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
180.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
202.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
225.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
247.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
270.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
292.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
315.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
337.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
360.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
22.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
45.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
67.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
90.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
112.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
135.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
157.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02

ANNUAL AVERAGES AT THE SITE BOUNDARIES

DIRECTION FROM SITE	DISTANCE MILES	CHI/Q SEC/METER CUBED
180.0	0.663	0.406E-07
202.5	0.682	0.322E-07
225.0	0.564	0.233E-07
247.5	0.508	0.174E-07
270.0	0.436	0.239E-07
292.5	0.132	0.248E-08
315.0	0.076	0.228E-12
337.5	0.066	0.331E-14
0.0	0.062	0.980E-16
22.5	0.066	0.331E-14
45.0	0.072	0.572E-13
67.5	0.094	0.507E-10
90.0	0.186	0.351E-07
112.5	0.530	0.561E-07
135.0	0.530	0.561E-07
157.5	0.583	0.488E-07

Because of the short distances these values should not be used.

DIRECTION FROM SITE	AVERAGE WIND SPEED M/SEC	AVERAGE INVERSE WIND SPEED SEC/M
180.0	6.482	0.243
202.5	6.173	0.257
225.0	5.124	0.307
247.5	4.497	0.352
270.0	5.090	0.314
292.5	5.763	0.263
315.0	5.763	0.263
337.5	5.763	0.263
0.0	5.763	0.263

BIG ROCK ELEVATED RELEASE 3/62-2/63 256 FT WIND DATA USING D.E.F. 6 STABILITIES

DIRECTION FROM SITE	DISTANCE IN MILES										
	0.500	1.000	2.000	3.000	4.000	5.000	10.000	20.000	30.000	40.000	50.000
180.0	0.715E-08	0.360E-07	0.436E-07	0.363E-07	0.295E-07	0.243E-07	0.120E-07	0.555E-08	0.349E-08	0.249E-08	0.171E-08
202.5	0.584E-08	0.312E-07	0.380E-07	0.321E-07	0.263E-07	0.219E-07	0.110E-07	0.514E-08	0.325E-08	0.233E-08	0.174E-08
225.0	0.333E-08	0.209E-07	0.268E-07	0.237E-07	0.200E-07	0.170E-07	0.096E-08	0.430E-08	0.279E-08	0.202E-08	0.156E-08
247.5	0.241E-08	0.212E-07	0.340E-07	0.322E-07	0.282E-07	0.245E-07	0.136E-07	0.680E-08	0.442E-08	0.322E-08	0.251E-08
270.0	0.271E-08	0.216E-07	0.338E-07	0.319E-07	0.279E-07	0.242E-07	0.134E-07	0.680E-08	0.433E-08	0.315E-08	0.245E-08
292.5	0.370E-08	0.231E-07	0.325E-07	0.299E-07	0.260E-07	0.225E-07	0.126E-07	0.634E-08	0.414E-08	0.303E-08	0.237E-08
315.0	0.370E-08	0.231E-07	0.325E-07	0.299E-07	0.260E-07	0.225E-07	0.126E-07	0.634E-08	0.414E-08	0.303E-08	0.237E-08
337.5	0.370E-08	0.231E-07	0.325E-07	0.299E-07	0.260E-07	0.225E-07	0.126E-07	0.634E-08	0.414E-08	0.303E-08	0.237E-08
0.0	0.370E-08	0.231E-07	0.325E-07	0.299E-07	0.260E-07	0.225E-07	0.126E-07	0.634E-08	0.414E-08	0.303E-08	0.237E-08
22.5	0.370E-08	0.231E-07	0.325E-07	0.299E-07	0.260E-07	0.225E-07	0.126E-07	0.634E-08	0.414E-08	0.303E-08	0.237E-08
45.0	0.370E-08	0.231E-07	0.325E-07	0.299E-07	0.260E-07	0.225E-07	0.126E-07	0.634E-08	0.414E-08	0.303E-08	0.237E-08
67.5	0.641E-08	0.352E-07	0.409E-07	0.393E-07	0.336E-07	0.280E-07	0.149E-07	0.733E-08	0.473E-08	0.344E-08	0.260E-08
90.0	0.650E-08	0.353E-07	0.409E-07	0.393E-07	0.336E-07	0.280E-07	0.143E-07	0.694E-08	0.446E-08	0.323E-08	0.251E-08
112.5	0.715E-08	0.360E-07	0.436E-07	0.363E-07	0.295E-07	0.243E-07	0.120E-07	0.555E-08	0.349E-08	0.249E-08	0.171E-08
135.0	0.715E-08	0.360E-07	0.436E-07	0.363E-07	0.295E-07	0.243E-07	0.120E-07	0.555E-08	0.349E-08	0.249E-08	0.171E-08
157.5	0.715E-08	0.360E-07	0.436E-07	0.363E-07	0.295E-07	0.243E-07	0.120E-07	0.555E-08	0.349E-08	0.249E-08	0.171E-08

CHT/O (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
180.0	0.261E-07	0.425E-07	0.395E-07	0.325E-07	0.267E-07	0.162E-07	0.767E-08	0.431E-08	0.291E-08	0.217E-08
202.5	0.220E-07	0.367E-07	0.347E-07	0.289E-07	0.239E-07	0.147E-07	0.706E-08	0.400E-08	0.272E-08	0.203E-08
225.0	0.138E-07	0.251E-07	0.251E-07	0.217E-07	0.181E-07	0.117E-07	0.588E-08	0.341E-08	0.235E-08	0.176E-08
247.5	0.138E-07	0.302E-07	0.332E-07	0.300E-07	0.267E-07	0.175E-07	0.908E-08	0.537E-08	0.351E-08	0.262E-08
270.0	0.143E-07	0.302E-07	0.329E-07	0.297E-07	0.259E-07	0.172E-07	0.894E-08	0.527E-08	0.366E-08	0.276E-08
292.5	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
315.0	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
337.5	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
0.0	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
22.5	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
45.0	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
67.5	0.246E-07	0.426E-07	0.418E-07	0.350E-07	0.303E-07	0.195E-07	0.967E-08	0.577E-08	0.391E-08	0.302E-08
90.0	0.246E-07	0.426E-07	0.418E-07	0.350E-07	0.295E-07	0.188E-07	0.939E-08	0.545E-08	0.376E-08	0.283E-08
112.5	0.261E-07	0.425E-07	0.395E-07	0.325E-07	0.267E-07	0.162E-07	0.767E-08	0.431E-08	0.291E-08	0.217E-08
135.0	0.261E-07	0.425E-07	0.395E-07	0.325E-07	0.267E-07	0.162E-07	0.767E-08	0.431E-08	0.291E-08	0.217E-08
157.5	0.261E-07	0.425E-07	0.395E-07	0.325E-07	0.267E-07	0.162E-07	0.767E-08	0.431E-08	0.291E-08	0.217E-08

SMOOTHED SEGMENTS (CHT/O AVERAGED WITH VALUES FROM NEIGHBORING SEGMENTS)

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
180.0	0.250E-07	0.410E-07	0.383E-07	0.316E-07	0.260E-07	0.156E-07	0.752E-08	0.423E-08	0.287E-08	0.213E-08
202.5	0.209E-07	0.352E-07	0.335E-07	0.280E-07	0.232E-07	0.143E-07	0.692E-08	0.393E-08	0.268E-08	0.200E-08
225.0	0.158E-07	0.293E-07	0.295E-07	0.255E-07	0.217E-07	0.139E-07	0.698E-08	0.405E-08	0.279E-08	0.210E-08
247.5	0.139E-07	0.289E-07	0.311E-07	0.279E-07	0.241E-07	0.160E-07	0.825E-08	0.486E-08	0.332E-08	0.254E-08
270.0	0.146E-07	0.302E-07	0.326E-07	0.293E-07	0.255E-07	0.170E-07	0.855E-08	0.524E-08	0.360E-08	0.275E-08
292.5	0.155E-07	0.300E-07	0.316E-07	0.280E-07	0.245E-07	0.164E-07	0.857E-08	0.502E-08	0.354E-08	0.269E-08
315.0	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
337.5	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
0.0	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
22.5	0.159E-07	0.299E-07	0.312E-07	0.278E-07	0.241E-07	0.161E-07	0.844E-08	0.502E-08	0.351E-08	0.266E-08
45.0	0.181E-07	0.331E-07	0.339E-07	0.290E-07	0.256E-07	0.169E-07	0.880E-08	0.562E-08	0.363E-08	0.275E-08
67.5	0.225E-07	0.394E-07	0.391E-07	0.336E-07	0.285E-07	0.185E-07	0.939E-08	0.550E-08	0.361E-08	0.268E-08
90.0	0.251E-07	0.426E-07	0.410E-07	0.346E-07	0.290E-07	0.183E-07	0.908E-08	0.524E-08	0.361E-08	0.268E-08
112.5	0.258E-07	0.425E-07	0.400E-07	0.332E-07	0.274E-07	0.168E-07	0.810E-08	0.459E-08	0.313E-08	0.233E-08
135.0	0.261E-07	0.425E-07	0.395E-07	0.325E-07	0.267E-07	0.162E-07	0.767E-08	0.431E-08	0.291E-08	0.217E-08

157.5 0.201E-07 0.425E-07 0.395E-07 0.325E-07 0.267E-07 0.162E-07 0.767E-08 0.431E-08 0.291E-08 0.217E-08

1.00E-08

1.00E-08

VALUES OF CHI/Q AVERAGED OVER ALL SEGMENTS AT A GIVEN RADIUS US/MS D.E.F.G STABILITIES

SEGMENT BOUNDARIES IN MILES									
5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
0.196E-07	0.348E-07	0.347E-07	0.299E-07	0.253E-07	0.163E-07	0.822E-08	0.479E-08	0.331E-08	0.249E-08

AVERAGE EFFECTIVE STACK HEIGHT IN METERS FOR EACH SEGMENT

DIRECTION FROM SITE	5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
180.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
202.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
225.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
247.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
270.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
292.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
315.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
337.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
360.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
22.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
45.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
67.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
90.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
112.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
135.0	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02
157.5	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02	0.750E 02

ANNUAL AVERAGES AT THE SITE BOUNDARIES

DIRECTION FROM SITE	DISTANCE MILES	CHI/Q SEC/METER CUBED
180.0	0.663	0.185E-07
202.5	0.682	0.164E-07
225.0	0.564	0.544E-08
247.5	0.508	0.261E-08
270.0	0.436	0.129E-08
292.5	0.132	0.662E-19
315.0	0.076	0.956E-40
337.5	0.066	0.188E-48
0.0	0.062	0.0
22.5	0.066	0.188E-48
45.0	0.072	0.737E-43
67.5	0.094	0.988E-29
90.0	0.186	0.247E-13
112.5	0.530	0.903E-08
135.0	0.530	0.908E-08
157.5	0.583	0.126E-07

Because of the short distances these values should not be used.

DIRECTION FROM SITE	AVERAGE WIND SPEED M/SEC	AVERAGE WIND SPEED SEC/M	INVERSE
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180.0	6.482	0.243	
202.5	6.173	0.257	
225.0	5.124	0.307	
247.5	4.497	0.352	
270.0	5.090	0.314	
292.5	5.763	0.263	
315.0	5.763	0.263	
337.5	5.763	0.263	
0.0	5.763	0.263	

23.5
45.0
67.5
90.0
112.5
135.0
157.5

5.763
5.163
6.462
6.464
6.482
6.482
6.482

0.263
0.263
0.231
0.233
0.243
0.243
0.243

100.000
100.000
100.000
100.000
100.000
100.000
100.000

100.000
100.000
100.000
100.000
100.000
100.000
100.000