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EOCR Building Wake Effects on Atmospheric Diffusion

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Prepared by G. E. Start, N. F. Hukari, J. F. Sagendorf,
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National Oceanic and Atmospheric Administration
Air Resources Laboratories

Prepared for
U.S. Nuclear Regulatory
Commission

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G. E. Start, N. F. Hukari, J. F. Sagendorf,
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Abstract

A series of 22 simultaneous releases of three gaseous tracers was conducted around the EOCR test reactor building at the Idaho National Engineering Laboratory in SE Idaho. Hourly averaged gaseous tracer concentrations were sampled on several concentric sampling arcs and at a limited number of elevated locations. Winds and temperatures were measured on a nearby 30m tower. Complete data appendices provide tracer concentration measurements, temperatures, winds and detailed wind statistics, derived diffusion statistics, and plots and analyses.

Building related effects upon diffusion near and downwind of the structure were grouped into 3 regions of characteristic behavior, a near building or cavity zone, a transition zone, and a far wake zone. Near the structure, vertical circulations altered the heights of tracer plume centers-of-mass and/or plume centerlines and produced a rapidly enhanced vertical diffusion. Elevated releases of tracer were conveyed downward with ground-level concentrations exceeding expectations from a Gaussian formulation for their physical release height; ground-level releases of tracer were substantially elevated so that ground-level concentrations were less than expected. Rapid vertical diffusion near the building yielded σ_z values 4-10 times greater than expected from Pasquill-Gifford curves. Within the transition zone rates of vertical diffusion were less than atmospheric; σ_z values returned to open-terrain expectations and continued near these open-terrain values within the far wake. Lateral plume spreading was well described by observed standard deviations of wind direction (σ_θ), except when σ_θ was less than 10 to 15°; with $\sigma_\theta < 10^\circ$ a noticeable building induced plume broadening existed. The downwind extent of significant building alteration of rates of diffusion was from 100 to 400m (about 4 to 16 reference lengths); σ_y and σ_z values were nearly the open-terrain values by 400 to 800m (16 to 32 reference lengths). The building alterations of plume diffusion and maximum ground-level concentrations were minimal for stability category A and became largest for strongly stable categories (F and G). An initial volumetric plume dilution, the "cA term", did not properly correct the Gaussian plume equation. Changes in vertical distributions of plume mass still influenced maximum ground-level concentrations to 1600m (about 64 reference lengths) downwind. Because of this alteration of vertical plume mass distribution, the assumption of a Gaussian distribution was poor and calculations using the exponential term were inappropriate.

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1.0 INTRODUCTION

Safety considerations, especially with respect to pollutant concentrations in the atmosphere, are playing a major role in the design and operation of nuclear power plants. Since pollutant concentrations are often greatest under low windspeed inversion conditions, a multi-part testing program has been undertaken to investigate the diffusion characteristics of the atmosphere under these conditions.

The first test series was conducted in 1974 at the Idaho National Engineering Laboratory (INEL) in the Eastern Idaho Desert (Sagendorf and Dickson, 1974), during conditions of low (less than 2.0 m/s) windspeed and temperature inversion over the flat terrain.

A second phase of testing was conducted during the summer of 1974 to contrast the effects of desert meteorological conditions with similar atmospheric conditions over a wooded, hilly terrain. The site of this second series was a proposed nuclear power station near Oak Ridge, Tennessee (Wilson, et al., 1976).

A need existed to examine the diffusive characteristics of the atmosphere under a variety of thermodynamic and hydrodynamic conditions in the vicinity of reactor complexes. A series of tests at the Rancho Seco Nuclear Power Station in 1975 have been previously described by Start, et al., (1977). Sagendorf et al, (1980) reported on the diffusion adjacent to both the Rancho Seco reactor complex and the EOCR complex in detail. The series of tests herein reported were conducted in 1975 and 1976 around the EOCR reactor building located on the INEL. Figure 1 is an aerial view of this reactor building.

The EOCR reactor complex is dominated by the large reactor building. This building has a square base with each side having a length of about 36.6 meters. The highest part of the roof has a height of 25 meters above ground level. The top of the stack is at a height of 30 meters. One small storage tank is located north of the buildings with additional tanks immediately northwest. The terrain over the sampling grid varies from a high point of 4960 feet MSL approximately 200 meters northeast of the building to a low point of 4920 feet MSL some 3200 meters to the northeast. Most of the grid is sagebrush covered.

When a building protrudes into the atmospheric flow, it produces distortions in the pressure and velocity fields. These distortions are loosely termed "building wake". "Cavity" refers to that portion of the wake immediately downwind of the structure. More complete discussion of aerodynamic flow around structures may be found in standard reference (e.g., Halitsky, 1968).

The EOCR experiment was conducted over a two-year period. It was designed to study atmospheric diffusion under a variety of stability and wind conditions and evaluate the building wake effects on dispersion.

Figure 1. Aerial view of the EOCR reactor building looking east.

2.0 DIFFUSION THEORY

2.1 The Diffusion Equation

The windspeed-normalized relative concentrations are given in the form Cu/Q , where C is the concentration (in gm m^{-3}), u is the mean windspeed through the effluent-carrying layer (in m s^{-1}), and Q is the source strength (in gm s^{-1}). These concentration values may be related to the plume axis height above the ground (H) and to spatial Cartesian coordinates (x, y, z) through the Gaussian diffusion equation.

$$\frac{C(x, y, z; H)u}{Q} = \frac{1}{2\pi\sigma_y\sigma_z} \exp\left\{-\frac{1}{2}\left(\frac{y}{\sigma_y}\right)^2\right\} \left[\exp\left\{-\frac{1}{2}\left(\frac{z-H}{\sigma_z}\right)^2\right\} + \exp\left\{-\frac{1}{2}\left(\frac{z+H}{\sigma_z}\right)^2\right\} \right] \quad (1)$$

Values for σ_y and σ_z , the standard deviations of effluent concentrations in the lateral and vertical coordinate directions (Pasquill, 1961 and Gifford, 1961 e.g.) have been determined for various stability categories. By direct measurements of some of the variables (x, u, Q) and by plume centerline sampling ($y=0, z=0, H=0$), the above equation simplifies so that comparisons may be made with σ_y and σ_z values commonly accepted for a given stability. If the receptors are at ground level, Equation (1) may be expressed as

$$\frac{C(x, y, 0; H)u}{Q} = \frac{1}{\pi\sigma_y\sigma_z} \exp\left\{-\frac{1}{2}\left(\frac{y^2}{\sigma_y^2} + \frac{H^2}{\sigma_z^2}\right)\right\} \quad (2)$$

The factor of two accounting for ground reflection of the plume is included as is customary. Integration of Equation (2) with respect to y yields the familiar expression for the crosswind integrated concentration from a continuous, elevated-point source.

$$CIC(x; H) = \frac{2Q}{\pi u \sigma_z} \exp\left\{-\frac{1}{2}\left(\frac{H}{\sigma_z}\right)^2\right\} \quad (3)$$

Equations (1), (2), and (3) are widely known Gaussian plume formulas and may be examined in greater detail by referring to appropriate books and papers (e.g., Gifford, 1968 or Pasquill, 1974).

With cross-wind oriented samples of ground-level concentrations $C(x, y, 0)$, the second moment of the lateral effluent-concentration distribution for a fixed downwind-distance, x , is

$$\sigma_y^2 = \frac{\sum_{i=1}^N \{C(y_i) \cdot (y_i - y_0)^2\}}{\sum_{i=1}^N C(y_i)} \quad (4)$$

where the position of the center of mass of the mean plume, y_0 , is

$$y_0 = \frac{\sum_{i=1}^N \{C(y_i) \cdot y_i\}}{\sum_{i=1}^N C(y_i)} \quad (5)$$

If Equation (3) is solved for the effective σ_z (a virtual value of vertical spreading), the centerline Gaussian continuous point source equation for an elevated plume near a reflecting boundary is

$$\sigma_z(\text{effective}) = \sigma_z \exp \left\{ \frac{1}{2} \left(\frac{H}{\sigma_z} \right)^2 \right\} = \frac{2 Q}{\pi u C(x; H)} \quad (6)$$

where H is the mean plume-axis height at downwind distance x , and σ_z is the Gaussian parameter for the plume with centerline at height H instead of the virtual value effective at ground-level ($\sigma_z(\text{effective})$).

2.2 Building Wake Modifications of the Diffusion Equation

A simplified method to allow additional plume spreading behind the building structure is expressed as

$$\frac{C(x, 0, z; H)u}{Q} = \frac{1}{2\pi(\sigma_y\sigma_z + cA)} \left[\exp \left\{ -\frac{1}{2} \left(\frac{z-H}{\sigma_z} \right)^2 \right\} + \exp \left\{ -\frac{1}{2} \left(\frac{z+H}{\sigma_z} \right)^2 \right\} \right] \quad (7)$$

Where A represents the area of the structure in the $Y-Z$ (cross-wind oriented) plane and c is an appropriate constant. c is usually assigned the value 0.5, which Gifford (1961) chose by intuition as a plausible lower estimate of the fraction of the structural area producing an initial plume spreading. For Z and H both equal to zero, Equation (7) reduces to

$$\frac{C(x, 0, 0; 0)u}{Q} = \frac{1}{\pi(\sigma_y\sigma_z + cA)} \quad (8)$$

In subsequent sections, Equation (7) will be evaluated with Pasquill-Gifford values of σ_y and σ_z , an area A equal to 1090 m², and c valued at 0.5.

3.0 MEASUREMENT AND ANALYSIS

3.1 Sampling grid

The sampling grid, as laid out for the 1975 series, consisted of five circular areas centered on the reactor building. Arc radii were 37, 68, 187, 386 and 794 meters. The 187 meter arc contained no ground samplers during any of the tests. The remaining arcs had sampler positions every six degrees. Additional arcs at 1200 and 1600 meters were used during the year 1976. These arcs had sampler positions every three degrees.

Positions were numbered clockwise beginning at north on the inner-most arc. Each arc was divided into six sectors which could be independently activated from the test control position. In addition four samplers were positioned on the auxiliary wing roof of the EOCR building.

Figure 2. Vertical sampling tower with four suspended samplers at 7.5, 15, 22.5, and 30m above ground.

Vertical samples were taken at ground-level sampling positions 90, 93, 150, 153, 210, and 213 using one hundred foot towers. The sampling interval was twenty-five feet on all towers (fig. 2). A photograph of one of the sampler boxes was given by Start, et al, (1977). A plot plan of the EOCR grid was shown in figure 3. Arc distances have been rounded off to the nearest fifty meters for discussion purposes during the remainder of this report.

3.2 Photographic Description of Test Site

Each of the previously mentioned subparts of the field study, together with the relative magnitudes of the terrain features, may be related to the aerial photograph in figure 4. The EOCR complex is visible in the center of the photograph. The outer-most arc shown is the 800 meter arc. Features in the photograph may be correlated with the terrain map (fig. 5), the plot plan (fig. 3), and with the details of the concentration isopleth analyses found in Appendices E, F, and G.

3.3 Meteorological Instrumentation

Meteorological data for both series of tests came from an instrumented tower located 150 meters northwest of the grid center. Since

Figure 3. Plot plan of the innermost arcs of the EOCR grid. The outermost grid is at 800 m.

Figure 4. Aerial view of the innermost arcs of the EOCR grid. Photograph may be compared to the plot plan shown in figure 3. The outer circle corresponds to the 800 m arc of fig. 3. North is at the top of the picture.

Figure 5. Terrain map of the entire EOCR grid. The outermost arc was at 1600 m. Contour lines were drawn for 10 foot height intervals.

southeast winds were a rare occurrence at the INEL, this location kept the tower out of the effects of the building wake. Temperature and wind sensors were located at the 4, 10, and 30 meter levels.

Temperature data were obtained from thermocouples mounted in Climet model 016-1 motor aspirated temperature shields. Horizontal wind speeds were obtained from Weather Measure model W103A cup anemometers with tri-cup stainless steel cup assemblies. Bivanes measured the horizontal and vertical wind angles. Photographs of the cup anemometer and bivane assemblies appeared in Start, et al, (1977).

During 1975, output signals from the sensors were input to a digital recording system housed in a small trailer. During 1976, this system was located in the instrumented bus described by Start, et al, (1977). This bus or trailer also served as a control center for test operations.

Additional meteorological data were gathered during the 1976 series of experiments. Weather Measure "103A" cup anemometers and Weather Measure light weight W104-2 direction vanes were mounted at the 70-ft level of nine 100-ft towers. They were located at grid tracer sampling positions 85, 88, 90, 92, 94, 96, 98, 100, and 103 in order to collect wind effect data within the wake of the building. This data was also digitally recorded, along with the same type of meteorological data collected in 1975 experiments.

3.4 Tracers

Sulfurhexafluoride (SF_6), dichlorodifluoromethane (F12), and dibromodifluoromethane (12B2) were used as tracers in this test series. All three of these gases were inert, non-toxic in the concentrations used, and were of relatively small concentration in the free atmosphere. The tracers were released simultaneously with start-up and termination times being coordinated by radio. No grid samplers were activated until the tracer cloud had extended to the outermost sampling arc. Then samplers were actuated for the duration of the desired test. All samplers were shut down as the tracer releases were terminated. In this way, average concentrations were obtained instead of total integrated concentrations.

Figure 6 shows the various tracer release sites used during the tests. One tracer was released through the stack above the reactor building. A second release position was on the highest EOCR reactor building roof. The third tracer was released at ground-level (1m) on either the windward or lee side of the building. Table 1 lists the locations and heights of tracer releases by test number for the entire test series.

To provide visual plume references and allow for photographic documentation, oil fog was used as a visual tracer. Tracer gas samples were analyzed with an electron capture gas chromatograph system (Lovell, et al, 1971). Additional details and photographs of the system were given by Start, et al, (1977).

Figure 6. Aerial photograph of the EOCR reactor building showing tracer release sites. The view is toward the southeast.

Table 1. Locations and Heights of Tracer Releases

Test No.	NRC Stab	Date	Time(MST)	Gas SF6		Gas F12		Gas 12B2	
				Site*	ht(m)	Site*	ht(m)	Site*	ht(m)
3	F	7/8/75	0606-0706	Stack	30	SW face	1	Roof	25
4	E	7/9/75	0559-0649	Stack	30	SW face	1	Roof	25
5	A	7/18/75	1007-1107	Stack	30	NW face	1	Roof	25
6	D	7/21/75	0624-0724	Stack	30	NW face	1	Roof	25
7	G	7/22/75	0543-0630	Stack	30	NE face	1	Roof	25
8	F	7/24/75	0348-0417	Stack	30	NE face	1	Roof	25
9	G	7/28/75	0503-0603	Stack	30	NE face	1	Roof	25
10	A	7/31/75	1024-1107	Stack	30	NE face	1	Roof	25
11	A	8/12/75	1008-1035	Stack	30	Roof	25	NE face	1
12	E	8/13/75	0642-0712	Stack	30	Roof	25	NE face	1
13	A	8/14/75	1017-1117	Stack	30	Roof	25	NE face	1
14	E	5/6/76	0619-0719	NW face	1	Stack	30	Roof	25
15	D	5/12/76	0618-0718	NE face	1	Stack	30	Roof	25
16	D	5/18/76	0616-0716	NE face	1	Stack	30	Roof	25
17	G	5/21/76	0451-0551	NE face	1	Stack	30	Roof	25
18	F	6/23/76	0453-0535	NE face	1	Stack	30	Roof	25
19	G	6/29/76	0329-0429	NE face	1	Stack	30	Roof	25
20	G	6/30/76	0344-0442	NE face	1	Stack	30	Roof	25
21	G	7/15/76	0344-0444	NE face	1	Stack	30	Roof	25
22	E	7/16/76	0742-0842	NE face	1	Stack	30	Roof	25
23	E	7/21/76	0748-0846	NE face	1	Stack	30	Roof	25
24	F	7/22/76	0814-0914	NE face	1	Stack	30	Roof	25

*NW face, NE face, and SW face are ground (1m) release sites.

4. RESULTS

A total of 24 gaseous tracer tests were conducted in and around the EOCR building complex. The first two tests were discarded due to various failings of meteorological data logging, the performance of the gas chromatographs, and loss of suitable weather conditions during the actual field measurements. Table 2 summarized the tests by NRC stability category during their conduct.

Additional details of the wind speeds and directions, standard deviations of wind direction, date and times of conduct of the tests, tower-measured temperature profiles, and NRC stability categories determined from tower temperature profiles are provided in appendix A.

Table 2. Stability Categories for Field Tracer Tests

<u>STABILITY</u>	<u>TEST NUMBER</u>	<u>TOTAL</u>
A	5,10,11,13	4
B	-	0
C	-	0
D	6,15,16	3
E	4,12,14,22,23	5
F	3,8,18,24	4
G	7,9,17,19,20,21	6

More detailed descriptions of the wind speeds and directions versus time are provided in appendices B and C. For each test, the total period of observation was subdivided into consecutive 2-min intervals; for each interval the average wind speed, direction, and the variance and standard deviation of wind direction and speed were provided for bivanes and/or cup anemometers at the 4, 10, and 30m heights on the EOCR meteorological tower. These data are listed in appendix B. A summary of total test information is given in appendix C. The total test summary provides average speeds and directions for the full period. For wind directions, the total variance during the test is listed along with the mean value of the 2-minute interval variances and the variance of the 2-minute average wind directions. The average 2-min variances may be viewed as a descriptor for the high frequency or turbulence diffusive process. Then, the variances of the 2-minute average directions are descriptive of the meandering or transport portion of the total dispersion of plume mass. The sum of the variance related to diffusion and variance due to meandering closely approximates the total variance for the entire period.

Table 3 lists the various sampling arcs, towers with samplers, and EOCR building roof-located samplers operated during each test. During part 1, tests 1-13, sampling arcs did not exist for 1200 and 1600m. For part 2, tests 14-24, these longer distance sampling arcs were established to investigate possible building influences at extended distances in a "far-wake" setting.

4.1 Measured Tracer Concentrations

Gaseous tracer concentrations were sampled at the various ground-level, tower heights, and roof locations described in figure 6 and table 3. A complete listing of all sampled concentrations (normalized by U/Q , where U was the average windspeed at the tracer release height and Q was the source strength) is given in appendix D. To better describe the contents of appendix D, the following illustrative plots are provided. Figure 7a,b,c depicts sampled concentration versus crosswind arc location (grid location number or

Table 3. Operation of Sampling Arcs, Towers and Miscellaneous Samplers

Test No.	50m	100m	400m	800m	1200m	1600m	Towers	Roof
3	x	x	x	-	-	-	-	-
4	x	x	x	x	-	-	-	-
5	x	x	x	-	-	-	-	-
6	x	x	x	x	-	-	x	-
7	x	x	x	x	-	-	x	-
8	x	x	x	x	-	-	x	-
9	-	x	x	x	-	-	-	-
10	-	x	x	x	-	-	-	-
11	x	x	x	x	-	-	x	x
12	x	x	x	x	-	-	x	x
13	x	x	x	x	-	-	x	x
14	x	x	x	x	x	x	x	x
15	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
18	x	x	x	x	x	x	x	x
19	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
21	x	x	x	x	x	x	x	x
22	x	x	x	x	x	x	x	x
23	x	x	x	x	x	x	x	x
24	x	x	x	x	x	x	x	x

x = operated

- = not operated

GLN) for successive downwind distances. Test 3 is shown in fig. 7a,b,c. Three lines are plotted in each figure to show the measurements for ground-level, roof, and stack released gaseous tracer. Figures 8a,b,c,d,e, and f depict tower sampled concentrations for test No. 16. Again, three separate lines identify the measurements for each of the gaseous tracers. In addition to these two types of regular array samplings of concentration, four samplers were operated on the lowest roof level of EOCR (fig. 6) and are listed under the heading of miscellaneous samples for each test during which they were operated.

Horizontal isopleths of gaseous tracer concentrations are provided in appendices E, F, and G. All isopleths for ground-level released tracer are in appendix E; appendix F contains isopleths for roof-level released tracer and appendix G contains isopleths for stack released tracer.

Figure 7. Sampled concentrations by grid location number for test 3 at the 50m, 100m, and 400m arcs. The thin solid line represents ground-level released tracer measurements, the dotted line represents roof-released tracer measurements, and the thick solid line represents stack-released tracer measurements.

Figure 8. Tower sampled concentrations by height for test 16. Symbols used: * = ground-level released tracer, Δ = roof released tracer, ⊕ = stack released tracer. Figures 8a and b are for 100 m downwind; figures 8c and d are for 200 m and 8e and f are for 400 m downwind.

4.2 Visual Tracer Observations and Measurements

Before describing and discussing the behaviors of the sampled gaseous tracers it may be of benefit to examine a few selected pictures and descriptive diagrams based upon visual tracer observations and measurements. During each test, smoke was released to aid the visualizing and understanding of the airflows and effluent diffusion around and downwind of the EOCR structure.

Figure 9 shows the release of smoke tracer at ground-level in the lee of EOCR (SW face). A large amount of plume mass appeared to be drawn upward and streamed away at approximately roof height. The plume was mostly aloft at larger distances downwind. Figure 10 shows the plume in greater detail near the structure. A portion of the plume was mixed within a volume confined to the near-building wake; much plume streamed away aloft in a manner similar to the plume in figure 9.

In order to more clearly illustrate the systematic effects of the structure which both elevate the plume and produce an initial volumetric dilution, two simultaneous visual tracer plumes were developed. One plume was released at a location which should be influenced by turbulence and airflow streamlines which were altered by the presence of the building. The second plume was released crosswind from the building at a distance (150 to 200m NW) for which no building disruption occurred. Both plume photographs and lidar scans of these plumes were made. Figure 11 shows two visible plumes being observed.

One tracer was being released in the lee of EOCR. Return flows in the cavity zone drew the tracer toward the structure and lifted it. In the background (seen against the mountain slopes) the second tracer was streaming away from its release point with a normal amount of vertical spreading and remained relatively close to the ground. The plume behind EOCR was being mixed and lifted vertically, much more than the plume far from the building.

Lidar observations were performed by Stanford Research International in a manner depicted in figure 12. Approximate crosswind/vertical scanings of the plume were made along several direction rays to obtain plume particle concentrations at several different downwind distances. At present, quantitative descriptions of these plume sections are unavailable; computer processing of these data were never completed by SRI. A schematic illustration of qualitative preliminary LIDAR observations is given in figure 13. Initially the building-affected plume was larger and elevated compared to the open-terrain plume. The open-terrain plume dispersed more rapidly, in some cases, while the building affected plume was smaller, relatively. Eventually, the two plumes were of comparable size at the longer distances.

Figure 9. Ground-level smoke tracer release in the lee of the EOCR reactor building. Much of the plume is drawn upward and streams away at roof height. Further downwind a large portion of the plume remained aloft at about roof height. A more diffuse portion of the plume was near the ground beneath the elevated and most concentrated part of the plume.

Figure 10. To compliment the smoke depiction of figure 9, a more detailed view is shown of ground-level smoke tracer release near the building. Some of the plume was mixed within the near-building wake; the remainder streamed away at about roof level.

Figure 11. Simultaneous visual tracer releases were made. The first tracer was released in the lee of the building; second tracer was released crosswind far from the building where building disruption had no effect. The tracer which was released near the building was drawn toward the building and lifted. The second tracer plume streamed downwind normally and was mixed and lifted vertically much less than the tracer plume which was released near the building.

Figure 12. LIDAR observations of simultaneous visual plumes (shown in fig. 11) were performed by SRI, according to a plan shown by this schematic. Lateral/vertical cross-section scans were performed at several different direction rays (R_i) to observe both the smoke and oil fog plumes. The closest LIDAR scans were through the near building plume; the more distant scans were about 800m downwind.

4.3 Maximum Ground-level Tracer Concentrations, Sigma-y, and Effective Sigma-z Values.

To better understand the significance of the full collection of sampled tracer concentrations which were listed in appendix D and shown by the horizontal concentration isopleths depicted in appendix E, F, and G, selected parameters have been calculated or tabulated. Three parameters or statistics used were the normalized maximum (peak) tracer concentration observed on a particular ground-level (1m) sampling arc, the second moment of the tracer lateral mass distribution (σ_y), and the σ_z value. These σ_y and σ_z values were determined with eqns. 4 and 6, respectively. Figure 14 shows measured peak tracer concentrations plotted versus downwind distance for ground-level released tracer and stability category D. Also shown in fig. 14 are curves of predicted normalized peak concentrations calculated from eqn. 2 with customary values of σ_y and σ_z (Pasquill (1961) and Gifford (1961)). Curves were calculated for plume centerline heights above the ground equal to 1, 10, 25, and 30m. Separate symbol types were used to plot measured values for a particular test, in order to distinguish between values from tests within the same stability category. If the Gaussian equation were

Figure 13. Schematic cross-sections of plumes from preliminary LIDAR observations are presented for increasing downwind distances. The plume on the left was the smoke released at the EOCR building while the plume on the right was oil fog released away from the building.

Figure 14. Measured peak normalized concentrations are plotted versus downwind distance for ground-level released tracer and stability category D. Also included are Pasquill-Gifford predictions of peak normalized concentrations for plume centerline heights of 1, 10, 25, and 30m with stability class D.

suitable and the Pasquill-Gifford values of σ_y and σ_z were appropriate, the observations for each test would match the upper curve for the 1m plume height. At times there was agreement between observations and calculation, but most often substantial differences were evident. Plots for other stability categories and tracer release heights were developed and the complete set is contained in appendix H.

In similar manner, tracer determined σ_y values (for all tracer release heights) were compared to Pasquill-Gifford (op. cit.) expected values (the heavy line) for stability D in figure 15. A regression line was drawn through the set of tracer derived σ_y values. A corresponding (parallel) but different behavior was evident. The complete set of σ_y comparisons with Pasquill-Gifford values are also contained in appendix H.

Figure 16 provides a scatter diagram of σ_z effective (eqn. 6) versus downwind distance. Data from all stability categories were included in the figure. Curves for stability categories A, B, C, D, E, and F (Pasquill-Gifford op. cit.) were included to place these effective σ_z values in perspective. One obvious discrepancy was shown by the very large values of σ_z effective at the smaller distances; values of many hundreds of meters were not credible. These virtual σ_z values were calculated using the ground-level sampled concentrations and no adjustment was made for elevated plume centerline heights. Additional discussion and reanalyses has been provided in a following section to better describe vertical diffusion and plume centerline heights.

4.4 Recalculated Sigma-z Values

Many σ_z effective values shown in fig. 16 were unrealistically large and were neither credible nor consistent with visual tracer observations at Rancho Seco (Start, et al., 1977) and during this study. Observations of oil fog visual tracer suggested that most ground-level and roof-top released effluents streamed away from the structure at roof-top height (essentially at the height of the flow separation zone). It seemed appropriate to calculate σ_z for ground-level and roof-top tracer release from σ_z (effective) values with effective plume height, H, equal to roof height (25m). Sigma-z values for stack released tracer were calculated using the physical stack height of 30m. Equation 6 was solved for σ_z solutions by iteration. Additional details of the numerical method for σ_z calculation are given in appendix I. Two roots of equation 6 were possible. One root (the smaller) represented the value of σ_z for an elevated plume with a Gaussian mass distribution; the second root (larger) provided σ_z for the well-mixed plume (non-Gaussian). The Gaussian plume values of σ_z (smaller or lower root) were adopted for the additional comparisons to follow; the implications of using the smaller root and the applicability of the well-mixed plume root will be discussed later. Comparison of σ_z from ground-level tracer

Figure 15. Tracer determined sigma-y values for stability class D were plotted versus downwind distance for all release heights with regression line for this set of values. Also included were Pasquill-Gifford expected values of sigma-y for stability class D.

Figure 16. Tracer determined sigma-z effective values were plotted versus downwind distance for all stability classes. Data for all tracer release heights were included. Also included were curves of Pasquill-Gifford expected values of sigma-z for categories A, B, C, D, E, and F.

releases (for $H = 25\text{m}$) with σ_z for the roof and stack height discharged tracer showed good agreement; virtual σ_z for ground-level released tracer (with $H = 1\text{m}$) showed very poor agreement with σ_z for roof and stack releases. Figure 17 shows σ_z values for ground-level released tracer versus σ_z values for roof and stack discharged tracer. Figure 17a shows calculations of σ_z for ground-level tracer releases using plume centerline heights of 25m versus σ_z calculations using 25m plume height for roof releases and 30m heights for stack tracer plumes. Figure 17b is similar except a 1m plume height (the height of tracer release) has been used for the ground-level tracer.

Therefore, when making calculations of σ_z values, 25m (the approximate flow separation height for the structure) was a far better choice for the approximate plume height of ground-level release tracer than was the actual height (1m) of its release. Visual observations confirmed this conclusion; intuition suggested that vertical diffusion at a few meters above the ground surface should resemble the diffusion at 25 to 30m above the ground surface. This similarity should have been greatest during strongly unstable (temperature lapse) conditions and less similar during strongly stable (temperature inversion) conditions. However, with the additional turbulence developed by the structure, building induced circulations off-set or nullified the tendency for stable layering effects during the more stable conditions - especially within the first few tens of meters (a few building heights) downwind of the structure. Therefore, σ_z calculated for all three tracers should have been similar in value, regardless of the heights of these tracer releases, because they developed within approximately similar turbulence regimes. The large differences between σ_z calculated with $H = 1\text{m}$ and calculations of σ_z for simultaneous releases of tracer at roof and stack heights were rejected. Therefore, discussions and comparisons to follow have utilized the knowledge that σ_z determined from eqn. 6 for ground level released tracer with $H = 25\text{m}$ was reasonably appropriate and closely approximated the correct quantitative magnitudes.

4.5 Tracer Diffusion Statistics Ratios and Comparisons

In order to identify important physical phenomena and departures from expected plume behaviors without the presence of the structures, the parameters of normalized axial concentrations, σ_y , and σ_z were ratioed with the "expected" flat, open-terrain values presented by Pasquill (1961) and Gifford (1961) (hereafter simply referred to as Pasquill-Gifford or P/G values). Three important ratios were formed; a concentration ratio was calculated by dividing the P/G "expected" axial value by the observed peak value of tracer concentration. If more dilution (a smaller observed peak concentration) occurred, the ratio was greater than unity; if a larger than expected value was obtained the ratio was between unity and zero.

Figure 17. Calculated sigma-z values for ground-level tracer releases were plotted versus corresponding calculations for roof and stack height releases of tracer. Sigma-z values for ground-level tracer were calculated for plume height of 25m (upper figure) and ground-level or 1 m (lower figure). Comparisons with stack (roof) tracer are shown by *(+).

In similar fashion, ratios of σ_y and σ_z were formed. However, sigma ratios were formed by dividing observed values by the corresponding P/G values. This ratio convention was consistent with the concentration ratios. Larger than expected sigma values yielded ratios greater than unity; larger sigmas implied greater dilution of the tracer plume and a smaller peak concentration. As noted above, smaller observed peak concentrations yielded ratios greater than unity. Therefore, when consistency existed between concentration variability and differences in the lateral and vertical diffusive spreads (σ_y and σ_z), these ratios exhibited similar characteristics and behaviors.

Tables 4, 5, and 6 list ratios of concentration, σ_y , and σ_z . Table 4 contains ratios for only ground-level releases of tracer; table 5 contains ratios for the roof-level tracer release and table 6 contains ratios for stack released tracer. Within each table an average parameter ratio was listed for each stability category at each downwind sampling distance. The complete data set of all individual ratios is given in appendix J. The significance of all of these data points (ratios) could have been examined by use of scatter diagrams, each of which would contain a large number of points. The study and interpretations of these scatter diagrams have suggested the same conclusions and results. But for simplicity and ease of understanding, selectively pooled (averaged) ratios more directly illustrated the important phenomena and behaviors and were utilized for most of the remainder of this manuscript.

Table 4. Ratios of Diffusion Parameters for Ground-level Tracer

Stab	RC (P/G peak conc./observed peak conc.)					
	50m	100m	400m	800m	1200m	1600m
A	1.160	3.224	0.5894	0.4288	--	--
D	4.757	14.41	9.960	6.888	10.09	3.045
E	13.37	31.01	8.167	17.96	14.31	13.29
F	15.81	17.65	38.12	23.94	11.27	9.231
G	36.07	57.12	57.98	11.29	22.99	32.27
RY (observed sigma-y/P/G sigma-y)						
A	1.149	1.504	1.608	1.747	--	--
D	3.260	2.826	3.332	3.100	2.343	2.506
E	4.484	3.727	3.890	4.084	3.251	2.866
F	5.185	6.134	6.385	6.433	4.638	5.022
G	8.491	9.140	9.151	11.53	6.377	6.568
RZ (observed sigma-z/P/G sigma-z)						
A	--	--	0.580	0.430	--	--
D	--	--	1.702	1.009	0.415	0.317
E	--	--	3.648	1.032	0.600	0.423
F	--	--	3.700	1.658	1.235	0.882
G	--	--	6.462	3.320	1.413	1.333

Table 5. Ratios of Diffusion Parameters for Roof-level Tracer Releases
RC (P/G peak conc./observed peak conc.)

Stab	50m	100m	400m	800m	1200m	1600m
A	3.471E-02	0.5282	0.3493	--	--	--
D	2.404E-09	1.156E-05	4.181	13.04	3.881	0.4206
E	1.480E-08	4.110E-09	1.314	4.102	1.893	1.215
F	8.737E-09	2.917E-09	1.496E-02	0.3737	4.456	4.109
G	7.640E-08	5.216E-08	2.583E-05	0.1940	2.200	5.591

RY (observed sigma-y/P/G sigma-y)

A	1.428	1.323	1.293	--	--	--
D	2.867	2.592	2.979	2.848	2.108	2.368
E	3.394	3.941	3.006	3.597	2.642	2.142
F	5.623	5.392	3.970	5.992	7.021	7.096
G	8.972	9.842	9.536	8.356	6.004	5.617

RZ (observed sigma-z/P/G sigma-z)

A	1.950	0.990	0.125	--	--	--
D	5.688	4.187	0.781	0.363	0.381	0.220
E	8.333	4.861	1.167	0.452	0.387	0.233
F	7.502	4.712	1.319	0.682	0.706	0.662
G	18.28	9.787	2.561	1.465	1.008	0.890

Table 6. Ratios of Diffusion Parameters for Stack-level Tracer Releases

RC (P/G peak conc./observed peak conc.)

Stab	50m	100m	400m	800m	1200m	1600m
A	1.564E-03	0.1869	0.7728	1.927	--	--
D	1.058E-08	1.551E-08	1.030	1.814	1.180	0.5573
E	2.403E-08	3.216E-09	7.303E-02	0.6350	0.1191	0.1131
F	1.079E-07	2.151E-08	4.044E-03	1.950	2.300	5.211
G	1.042E-07	2.474E-08	5.749E-09	2.113E-03	7.0502E-02	0.4157

RY (observed sigma-y/P/G sigma-y)

A	1.404	1.399	1.392	1.602	--	--
D	2.844	3.213	3.153	3.592	2.870	2.319
E	3.939	3.746	3.450	4.766	3.708	4.007
F	5.000	5.076	4.259	6.330	5.834	4.598
G	6.356	10.14	10.68	10.50	7.440	5.757

RZ (observed sigma-z/P/G sigma-z)

A	1.111	0.880	0.138	0.039	--	--
D	9.506	3.41	1.17	0.571	0.292	0.208
E	8.166	5.077	1.131	0.731	0.532	0.331
F	10.960	7.600	2.107	1.309	0.842	0.979
G	18.140	11.487	3.457	1.426	1.767	0.773

For ground-level tracer releases measured concentrations were generally less than P/G values determined for a 1m source height. Roof-level and stack discharged tracers had ground-level concentrations much greater than determined by the Gaussian plume model (eqn. 2) within the first several hundred meters downwind of the structure. In instances where equation 2 calculations produced very small values (near the building and stable conditions) the calculated values were replaced by the threshold tracer concentrations. Without this replacement RC values approached with 10^{-40} . With replacement, these RC values had magnitudes greater than 10^{-10} . The utility of this replacement was for graphical depictions. The physical interpretation of this alteration was that the downwash of elevated plumes really was greater than the RC ratios showed following the substitution. The meaning of the large RC values was that the Gaussian distribution was not applicable in stable conditions with building downwash.

The RY values were essentially the same, regardless of tracer release height. A definite increase in RY was shown as stability category progressed from A to G. A modest decrease in RY with distance may have occurred at distances beyond 800m, but it was not conclusive.

RZ values averaged slightly greater than unity; the largest departures from unity were for the most elevated tracer release and were greatest at shorter distances. At greatest downwind distances the RZ ratios were slightly less than unity.

Tables 7 through 12 list averaged ratios of normalized concentration, σ_y , and σ_z for ground-level, roof, and stack released tracer. These ratios were pooled averages for either specific arc distances (using all stability category data) or specific stability categories (using all arc distances). An overall or all-data ratio was listed for RC, RY, and RZ. These ratios were plotted in fig. 18a, b, c, d, e, and f. Three curves were plotted in each figure; a separate curve was plotted for data from ground-level, roof, and stack release heights. Figures 18a and b depict RC versus downwind distance and stability category, figures 18c and d depict RY vs distance and stability, and fig. 18e and f depict RZ versus distance and stability.

The lateral (indicated by RY) and vertical (shown by RZ) plume spreading ratios were very consistent regardless of the tracer release height. This consistency was expected since the tracers were experiencing the same fundamental atmospheric (and building wake) conditions which produced diffusion. The departures (ratios with Pasquill-Gifford values) from expected σ_y and σ_z were trivial for strongly unstable ($A = 1$) and largest for strongly stable ($G = 7$) stability categories (figs. 18d and f). A systematic behavior of these ratios with distance (figs. 18c and e) were also evident. RZ ratios (fig. 18e) clearly showed a large initial dilution process which was followed by a rapid (exponential-like) decrease in the relative contribution of this initial dilution. These RZ values approached unity between 400 and 800m downwind and remained in essential agreement with expected Pasquill-Gifford values of σ_z at the longer distances.

Table 7. Ratioed Diffusion Statistics for Ground-Level Tracer Releases with Pooled Stabilities.

	m	RC	RY	RZ
	50	16.41	4.942	—
	100	27.98	5.114	3.602
	400	28.61	5.655	1.751
	800	13.91	6.664	0.915
	1200	16.15	4.475	0.818
	1600	17.59	4.539	0.663
All data		20.96	5.329	1.793

Table 8. Ratioed Diffusion Statistics for Ground-Level Tracer Releases with Pooled Distances

	STAB	RC	RY	RZ
	A	1.738	1.433	0.379
	D	7.832	2.953	0.820
	E	16.74	3.818	1.367
	F	21.01	5.760	1.901
	G	37.41	8.812	2.941
		20.96	5.329	1.793

Table 9. Ratioed Diffusion Statistics for Roof-Level Tracer Releases with Pooled Distance

	m	RC	RY	RZ
	50	0.00521	4.860	9.298
	100	0.09604	5.154	5.382
	400	0.935	4.647	1.333
	800	3.8098	5.818	0.900
	1200	2.756	4.504	0.697
	1600	3.305	4.2897	0.570
All Data		1.334	4.874	3.726

Table 10. Ratioed Diffusion Statistics for Roof-level Tracer Releases with Pooled Stabilities

	STAB	RC	RY	RZ
	A	0.3286	1.3407	0.937
	D	3.767	2.676	2.141
	E	1.141	3.276	3.382
	F	0.5858	5.378	3.554
	G	1.043	8.314	5.866
		1.334	4.874	3.726

Table 11. Ratioed Diffusion Statistics for Stack-level Tracer Releases with Pooled Stabilities

	m	RC	RY	RZ
	50	0.000313	3.982	9.487
	100	0.0340	5.232	6.294
	400	0.2983	5.154	1.768
	800	0.9649	6.305	0.944
	1200	0.6908	5.299	0.994
	1600	1.231	4.444	0.568
All Data		.4679	5.152	3.550

Table 12. Ratioed Diffusion Statistics for Stack-level Tracer Releases with Pooled Distances

	STAB	RC	RY	RZ
	A	0.5921	1.429	0.575
	D	0.8004	3.063	2.365
	E	0.1695	3.948	2.800
	F	1.160	5.122	4.404
	G	0.0675	8.958	5.614
		.4679	5.152	3.550

Figure 18. Averaged ratios of normalized concentration, sigma-y, and sigma-z for ground-level, roof, and stack released tracers. The first column of plots contain pooled averages for all stability categories for specific arc distances. The second column of plots contain pooled averages for all arc distances for specific stability classes. Symbols used: * = ground-level released tracer; Δ = roof released tracer, + = stack released tracer.

RY ratios (fig. 18c) depict an initial magnitude which increased more slowly to about 800m downwind. Beyond 800m, RY values slowly decreased; RY values from the Rancho Seco study (table 13), (Start, et al., 1977) agreed well with these EOGR findings. Rancho Seco values of RY ranged from 6.4 at 100m downwind to 4.8 at 800m downwind.

Concentration ratios are depicted in figs. 18a and b. RC values greater than unity resulted when the observed peak concentrations were less than values calculated by the Gaussian diffusion formula (eqn. 2). The calculated concentration values were obtained by substitution of expected (P/G) values of σ_y and σ_z and plume heights of 30m for stack, 25m for roof, and 1m for ground-level tracer releases into eqn. 2. Since values of RC were much greater than unity, measured ground-level peak tracer concentrations were substantially less than calculated from the Gaussian formula with $H = 1m$. Likewise, the corresponding measured peak concentrations from roof-level and stack discharged tracers were much greater than calculated at ground-level by the Gaussian formula.

In general, the RC ratios for stack and roof height tracer releases were similar; they were small in magnitude due to downdraught increases in ground-level measured concentrations near the structure. At longer distances the concentrations approached expectations (RC approaches unity). RC values for the ground-level tracer releases were large at all distances due to a substantial upward-mixing of plume mass behind the structure. RC for ground-level tracer releases varied from about 2 for stability A to almost 40 for stability G. No obvious systematic behavior was evident for roof and stack height tracer releases.

At any particular distance, RY values were approximately 4 to 6. Measured σ_y values were larger than the corresponding P/G values. RY values increased in magnitude from about 1-1/2 to 9 as stability changed from A to G, with great consistency for all tracer release heights.

The variations of RZ with distance and stability were more erratic than for either RC or RY. RZ increased with greater stability; CIC was less representative of the value which should be observed at plume axis height with more stable conditions. RZ decreased with greater distance.

4.6 Wind Direction Meandering, Building Induced Lateral Spreading, and Tracer Sigma-y

The RY ratios in tables 7 through 12 which were plotted in fig. 18c and d were developed from second moments of tracer mass distributions divided by the appropriate value of σ_y from the Pasquill-Gifford curves. These summarized ratios illustrated the differences during this test series from values expected with adaption of the Pasquill-Gifford curves without alterations.

The causes of these systematic differences from Pasquill-Gifford values will now be examined. Some physical basis for these differences may be postulated, such as building wake plume broadening, greater than expected wind direction meandering for the associated stability category, or perhaps incorrect specification of stability category. There was no known bias in stability category specification. However, there was a significant influence of wind direction meandering. Table 13 summarizes the average standard deviations of wind direction for EOCR by stability category and lists the corresponding values from Gifford (1968). For σ_y estimates, (Pasquill, 1976) derived using $\sigma_y = f(x) \cdot \sigma_\theta \cdot X$, an adjusted standard deviation of direction, $\sigma_\theta \cdot f(x)$, was appropriate. Example adjusted values for $X = 800\text{m}$ are given in table 13. If the EOCR average σ_θ

Table 13. Observed and expected Values of Wind direction Standard Deviation by Stability Categories.

	Stability Category				
	A	D	E	F	G
Gifford (1968)	25.	10.	5.0	2.5	(1.25) ⁴
EOCR avg.	25.7	23.0	9.5	20.6	15.6
Pasquill (1976) ¹	15.5	6.2	3.1	1.6	0.8
σ_θ ratio ²	1.7	3.7	3.1	12.9	19.5
RY avg. (approx) ³	1.5	3	3	5	9

σ_θ is standard deviation of horizontal wind direction

¹ Pasquill (1976) $\sigma_\theta(\text{effective}) = f(x) \cdot \sigma_\theta$ (Gifford, 1968)
where $f(x) \approx 0.61$ at $x=800\text{m}$

² σ_θ ratio is (EOCR avg.)/(Pasquill, 1976)

³ Tracer determined σ_y divided by expected Pasquill-Gifford sigma-y value

⁴ σ_θ for "G" is assigned 1/2 of value for "F" stability of Gifford (1968).

values were divided by these Pasquill adjusted values, the resulting ratios approximated the RY ratios presented in tables 4 through 12 and in figures 18c and d within a factor of about two or less. Therefore, there may be only minor effects of the building wake upon lateral plume spreading. A building induced spreading effect should have been most evident near the structure and diminish in importance at longer distances. To examine this behavior, measured tracer σ_y values were divided by σ_y values calculated from σ_θ measured at the 30m height

on the EOCR meteorological tower; the Pasquill (1976) formula was used. These ratios represented the reciprocal of the fraction of plume spreading described by σ_θ . The resulting ratios were plotted versus the σ_θ values in figures 19a,b, and c. Since a distance related behavior was postulated for this fraction versus σ_θ , regression lines with distance held constant (i.e., 100m, 400m, ...etc.) were calculated. They are plotted for ground-level (fig. 19a) roof-level (fig. 19b), and stack released (fig. 19c) tracer. There was a striking similarity for all tracers and distances. For measured values of σ_θ less than 10 to 20° σ_y values estimated from σ_θ are 2 to 4 times too small (the effect of the structure is noticeably important). For larger values of σ_θ , the atmospheric effect of wind direction meandering dominated the lateral dispersion process downwind of the structure.

The average values of RY shown in table 13 were similar to the average ratios of σ_θ for stabilities A, D, and E and were about 1/2 of the magnitude of ratio values for stabilities F and G. Examination of NRTS curves of σ_y values for 15-60 min tracer release times (Yanskey, et al, 1966) and Pasquill-Gifford σ_y values for approximately 3-5 min tracer release times (Turner, 1970) revealed that NRTS values of σ_y (for 60 min tracer releases) were about 2 to 4 times larger than the corresponding Pasquill-Gifford values at 800 to 1000m downwind during stabilities E, F (and G). These differences were expected due to longer averaging times for the NRTS observations of tracer spreading; likewise, σ_θ values for EOCR should have been larger than the short term values referenced by Gifford (1968). Based upon NRTS field data and EOCR findings (e.g., σ_y divided by $\sigma_y(P/G)$ and RY(EOCR) it appeared that more reasonably expected values of σ_θ for stabilities E, F, and G should be about 15, and 20-25° for the 60 min EOCR tracer releases. If these values were used to recalculate σ_y according to Pasquill (1976), the observed tracer spreadings would have been well accounted for by observed standard deviations of horizontal wind direction. Therefore, much of the departure of RY values from unity resulted from comparisons with previous observations (diffusion climatology) which possessed a substantially smaller amount of wind direction meandering.

Apparently, these calculated enhancements of lateral tracer spreading downwind of the structure were not due particularly (on the average) to the effects of the structure; they resulted from the use of a reasonably correct method, Pasquill (1976) with the wrong σ_θ expectations (they were appropriate for too short of a tracer release/sampling time). The shortness (smallness of σ_θ) was most evident during the more stable atmospheric conditions of categories E, F, and G. However, as shown in figure 19, for small values of σ_θ (<15°), there was a substantial underprediction of plume spreading. When the meandering of the wind direction was sufficiently small (e.g. <10°), only 1/4 to 1/2 of the observed tracer spreading was accounted for by a σ_y calculated from σ_θ . Likewise, for large wind direction meanderings (e.g. σ_θ >25 to 300) the effect of the EOCR structure on lateral plume spreading became indistinguishable from the expected plume spreading in the atmosphere without the structure present.

Figure 19.
Regression lines were calculated for the ratio (sigma-y observed divided by sigma-y calculated from σ_θ , using the formula by Pasquill (1976)) versus σ_θ . Various lines were calculated for constant values of distance down wind. Plots are for ground-level (a.), roof-level (b.), and stack-height (c.) tracer releases.

4.7 Wake Dilution Estimates Using the "cA" Term.

To account for effects which alter effluent plume dimensions within airflows near and downwind of structures, a simple modification of the Gaussian plume model was presented by Gifford (1961). Equations 7 and 8 are example incorporations of this simple conceptual modification. These equations were used to examine the suitability of the add-on cA term to better account for observed ground-level tracer concentrations. This modification of the diffusion equation is envisioned to be most applicable to ground-level released effluent plumes, but roof and stack released tracer were also examined for completeness.

On the basis of diffusion statistic ratios presented in fig. 18c and 18e the following procedures were adopted for calculation of expected maximum concentrations for comparisons with observed maximum concentrations. After consideration of ratios in figure 18e, it was deemed appropriate to use the expected Pasquill-Gifford (P/G) values of σ_z , since the ratios converged to near unity at and beyond 400m downwind. Significant deviations from expected P/G values were confined to relatively near-building distances. These deviations were ascribed to near-building modifications of expected atmospheric rates of diffusion and to downwash and might be expected to be treated by the near-building modifications of the Gaussian diffusion equation, e.g. the cA term. Since the ratios shown for σ_y in figure 18c did not converge to unity, the actual test-by-test determined values were used in calculations of maximum tracer concentrations. (These values of σ_y and the associated σ_θ values were consistently larger than values usually related to the P/G stability categories.) The observed wind speeds at 30m, essentially at stack-top height, were selected since visible plume observations have shown that considerable plume mass streams away from the building at roof-level or a little higher. In summary, these calculations of maximum ground-level concentrations were made using the Gaussian diffusion equation with 1) observed values of σ_y and wind speeds (measured at 30m), 2) P/G values of σ_z appropriate to the stability category (determined by vertical temperature gradient), 3) plume axis height of 25 or 30m with and without the usual Gaussian exponential off-centerline reduction of concentration, and 4) with and without an add-on cA term in which $c = 0.5$ and $A = 1090m^2$.

Figure 20 relates calculated versus observed maximum concentrations. Data from all tests, release heights, stabilities were used, except that data from the 50m arc are not included. The term "CHI PEAK" denotes maximum measured normalized ground-level concentration. Two variations of calculations were used. In fig. 20a and c the add-on term, (+cA), was used as given in eqn. (8). In fig. 20a and b the exponential term (EXP), shown in eqn. (7) was used with $z = 0$. In fig. 20d neither the (EXP) nor the (+cA) were used in calculation of normalized concentrations. It is very obvious from fig. 20 that significant large calculational errors result from use of

Figure 20. Calculated ground-level normalized concentrations were plotted versus observed normalized maximum concentrations (CHI PEAK). All stability categories, release heights, and all but 50m arc data were plotted. Calculations were made using eqns (7) and (8) with $z=0$. In figures 20c and 20d $H=0$ was used; in figures 20b and 20d $CA=0$ was used.

the Gaussian equation with EXP. Calculations without use of the EXP term yielded far better comparisons, as shown in fig. 20c and d. Use of the (+cA) term did little to remove the significant over estimation of concentrations. The use of the cA term had the largest relative effect on the largest concentrations (at the far right side). Some concentrations were under-calculated but the large majority (about 85 percent) of the values were over estimated. During the remainder of discussions and comparisons of concentration data, calculated concentrations will NOT include the Gaussian exponential term, EXP, to vertically adjust for off-axis concentration calculations. Instead, calculated axial concentrations will be compared with observed ground-level tracer concentrations. If a calculation or comparison includes the use of the EXP term, it will be explicitly identified as included in the calculated value.

The relative contribution of the add-on cA term was more easily recognized from the scatter diagram in fig. 21. Calculated values (with and without the cA term) were divided by the observed maximum concentrations and plotted against one another. Differences due to the use of the cA term yielded less than a factor of ten modification of concentration relative to calculations without use of the add-on cA term. Variations of ratio value (whether or not the ratio was formed using concentrations calculated with the cA term) were much greater than the variability of concentrations attributable to use of the cA

Figure 21. Relative contributions of the add-on cA term are shown by ratios of calculated axial (without the cA term) concentrations divided by observed maximum concentrations (abscissa) versus the corresponding ratios (ordinate) calculated with inclusion of the cA term.

term in the calculations. If 50m arc data were used, these differences would be larger. However, the presence of the structure resulted in tracer travel paths substantially different than 50m, due to non-symmetrical positioning of the tracer release points and trajectory length alterations due to flow around the structure. Therefore, the 50m arc values were given specialized analysis and were reported by Sagendorf et al, (1980) in a specific treatment of near-building diffusion.

Figure 22 presents data for only ground-level tracer releases. In Fig. 22a calculated (with cA term) maximum concentrations versus measured values are presented. The same over-calculation bias existed for ground-level releases as shown in fig. 20 (for all tracer release heights.) Figure 22b shows the ratio of calculated divided by observed concentrations (the same data points used in fig. 22a) versus downwind distance. Ten points were under-calculated and only 4 values (of 82 total points) were under-calculated by more than a factor of two. The largest under-calculation factor was about five. The calculation bias did not appear to be a function of distance.

The behaviors of calculated divided by observed concentration ratios are presented in figures 23, 24, and 25. Ratios were plotted versus distance, as in fig. 22b, but separate figures were provided for each stability class as well as for the entire data set. Figure 23 shows these depictions for ground-level released tracer with calculated values which included the cA term. Figure 24 presents the similar plots for roof-level tracer releases and figure 25 relates to stack discharged tracer; these calculations did not include the add-on cA term for the roof and stack released tracers. Stability category did not seem to be an uncompensated factor in errors (deviations) for calculation of tracer maximum ground-level concentrations. More under-calculations occurred for stack releases (less occurred for ground-level and roof-level releases); the maximum factor of under-calculation was least for ground-level tracer releases. This factor was more for roof-level and was most for stack releases. Under-calculation seemed largest at longer distances for stack-height tracer releases, relative to the other tracers at longer distances.

Ratios of calculated divided by observed concentrations versus wind speed at release height are shown in fig. 26. Figure 26a presents stack release data and fig. 26b depicts results for roof-level released tracer. Figures 26c and d present data for ground-level released tracer. Calculated concentrations included the cA term only in fig. 26c. For stack releases (fig. 26a) there were no under-estimations of concentrations for windspeeds less than 2 m/s, but there were many over-estimations by greater than an order of magnitude. A threshold windspeed for downwash of stack emitted tracer seemed to occur; no similar threshold for ground-level released tracer seemed to occur. Roof-level releases of tracer may have had a lower threshold for downwash (about 1.5 m/s) but it was less certain whether or not roof-level releases behaved substantially different than ground-level releases in this regard.

Figure 22. Comparisons of calculated (including the cA term) versus observed maximum concentrations are plotted for only ground-level tracer releases. Calculated values were plotted versus observed values in fig. 22a; most values were calculated too large. Ratios of calculated divided by observed concentration were plotted versus distance in fig. 22b; no significant effect versus distance was apparent.

Figure 23. Ratios (of calculated divided by observed concentrations) versus distance are plotted for ground-level tracer releases. Plots were made for particular stability categories (fig. 23a for stability A, fig. 23b for D, fig. 23c for E, fig. 23d for F, fig. 23e for G) and for all stabilities in figure 23f.

Figure 24. Ratios (of calculated divided by observed concentration) versus distance plotted for roof-level tracer releases. Plots were made for particular stability categories (fig. 24a for stability A, fig. 24b for D, fig. 24c for E, fig. 24d for F, fig. 24e for G) and for all stabilities in fig. 24f.

Figure 25. Ratios (of calculated divided by observed concentration) versus distance are plotted for stack tracer releases. Plots were made for particular stability categories (fig. 25a for stability A, fig. 25b for D, fig. 25c for E, fig. 25d for F, fig. 25e for G) and for all stabilities in fig. 25f.

Figure 26. Ratios (of calculated divided by observed maximum concentrations) versus windspeed at 30m. Stack released tracer ratios are shown in fig. 26a and roof released tracer ratios are in fig. 26b. Ground-level tracer ratios are in figures 26c and 26d. Ratios in fig. 26c were based upon calculated concentrations which included the add-on CA term.

5.0 SUMMARY

A series of 22 simultaneous gaseous tracer releases were conducted around the EOCR reactor at the Department of Energy's Idaho National Engineering Laboratory. Sulfurhexafluoride (SF_6), dichlorodifluoromethane (Freon 12), and dibromodifluoromethane (12B2) were released for approximately 1-hr intervals and collected by samplers placed on a surveyed grid about the EOCR facility. Average windspeeds for tests within the series varied from less than 1 to almost 10 mps. Atmospheric stabilities included Pasquill-Gifford A, D, E, F, and G (as determined by 10 to 30m temperature difference and NRC guidelines).

A detailed description of normalized relative concentrations near buildings, including EOCR, has been provided by Sagendorf, et al (1980) and was not treated in-depth in this study. In this report, complete data appendices provided lists of meteorological variables, wind direction statistics, sampled plume concentrations, derived diffusion statistics and their ratios with expected open-terrain values, and numerous analyses and plots of these values and statistics. Examples of statistics were described in the body of the report and summarized groupings were used to more clearly describe the main important findings.

Determinations of σ_z were made using numerical techniques to solve the non-linear equation relating crosswind integrated concentration, height of plume axis, and σ_z . The smaller (Gaussian) root was used throughout in this study for calculation of ratios. For stability category A (and some of category D) conditions, it was likely that the non-Gaussian root (vertically well-mixed plume) value of σ_z should have been adopted. For these situations the amount of building enhanced vertical diffusion was underestimated and the downwind extent of this enhanced diffusion was underestimated. For stabilities E, F, and G the use of a Gaussian (smaller) root seemed appropriate since the plumes were not yet well mixed in the vertical. Most test data were collected during these stable categories.

To summarize many of the findings regarding atmospheric diffusion near and downwind of the EOCR structure, Table 14 is presented. Three characteristic zones - a near structure or cavity zone, a transition zone, and a far wake zone - were identified. Relative diffusion and concentration effects were summarized versus distance downwind of the structure. Data from all stability categories were pooled at their common downwind distances. A distinction was made for varied heights of tracer release. Relative differences in tracer behavior were referenced 1) to the expectations of Pasquill-Gifford curves of σ_y , σ_z , and normalized concentration, 2) to substantial alterations of plume centerline height and/or 3) to departures from Pasquill-Gifford rates of growth of σ_y and σ_z . Ground-level releases of tracer were circulated aloft so that ground-level measured concentrations were 10 to 30 times less than expected. Elevated releases of tracer experienced downdraught effects so that their near ground-level measured concentrations exceed expectations from a Gaussian model by factors

exceeding 200-3000 to as much as tens of orders of magnitude. A Gaussian off center-line adjustment of concentration was very poor in the presence of downwash effects.

Table 14. Summary of atmospheric diffusion characteristics versus distance downwind from the EOCR structure. Behaviors within three characteristic zones are summarized. All stability categories were pooled and findings related to figures 18a, c, and e for stack, roof, and ground-level tracer releases.

Ground Level Tracer	Roof and Stack Level Tracer
Cavity Zone	Cavity Zone
1. Upward flux of considerable plume mass. 2. Initial plume broadening laterally and vertically 3. $\sigma_y \approx 5*(\sigma_y(P/G))$ 4. $\sigma_z \approx 5*(\sigma_z(P/G))$ 5. $C_g \approx (0.1 \text{ to } .04)*(C_p(P/G))$	1. Downwash of plume into cavity region. 2. Initial plume broadening laterally and vertically 3. $\sigma_y \approx (5)*(\sigma_y(P/G))$ 4. $\sigma_z \approx (5 \text{ to } 10)*(\sigma_z(P/G))$ 5. $C_g \approx (200 \text{ to } 3000)*(C_p(P/G))$
Transition Zone	Transition Zone
1. $\frac{\partial}{\partial x} \sigma_y \approx \text{rate for P/G growth}$ 2. $\frac{\partial}{\partial x} \sigma_z < \text{rate for P/G growth}$ 3. $\sigma_y \approx (5.5)*(\sigma_y(P/G))$ 4. $\sigma_z \approx (3.5 \text{ to } 1.5)*(\sigma_z(P/G))$ 5. $C_g \approx (0.04)*(C_p(P/G))$	1. $\frac{\partial}{\partial x} \sigma_y \approx \text{rate for P/G growth}$ 2. $\frac{\partial}{\partial x} \sigma_z < \text{rate for P/G growth}$ 3. $\sigma_y \approx (5.5)*(\sigma_y(P/G))$ 4. $\sigma_z \approx (5.5 \text{ to } 1.5)*(\sigma_z(P/G))$ 5. $C_g \approx (30. \text{ to } 1.)*(\sigma_z(P/G))$
Far Wake Zone	Far Wake Zone
1. $\frac{\partial}{\partial x} \sigma_y \leq \text{rate for P/G growth}$ 2. $\frac{\partial}{\partial x} \sigma_z \approx \text{rate for P/G growth}$ 3. $\sigma_y \approx (6. \text{ to } 4.5)*(\sigma_y(P/G))$ 4. $\sigma_z \approx (1.5 \text{ to } 0.6)*(\sigma_z(P/G))$ 5. $C_g \approx (.04 \text{ to } 0.7)*(C_p(P/G))$	1. $\frac{\partial}{\partial x} \sigma_y \leq \text{rate for P/G growth}$ 2. $\frac{\partial}{\partial x} \sigma_z \approx \text{rate for P/G growth}$ 3. $\sigma_y \approx (6. \text{ to } 4.5)*(\sigma_y(P/G))$ 4. $\sigma_z \approx (1.5 \text{ to } 0.5)*(\sigma_z(P/G))$ 5. $C_g \approx (3. \text{ to } 0.3)*(C_p(P/G))$

Where

C_g is ground-level concentration
 x is distance in the along wind direction

Vertical diffusion differences ascribed to the structure developed very rapidly near the building; they rapidly diminished for all tracers and σ_z values approached the expected values by approximately 400m downwind (about the downwind extent of the transition zone). Thus, the overall effect upon vertical behavior of tracer was an initial alteration of plume center of mass and/or centerline, especially for near ground-level effluent releases. An initial vertical dispersion rapidly developed throughout a zone near the building with depth approximating the height of the structure. Within the transition zone vertical diffusion in the wake appeared inhibited and developed at a rate less than expected without the presence of the structure and its wake turbulence effects. It was important to note that while the rate of diffusion appeared to be less than ambient rates, the vertical diffusion statistic (σ_z) remained greater than or about equal to the expected P/G value ($RZ > 1$). In the far wake zone, vertical diffusion appeared to proceed as expected over open terrain and σ_z values were as expected without the presence of the building. Lidar observations (unpublished measurements by SRI) of simultaneous smoke plumes qualitatively supported these gaseous tracer findings.

Lateral plume spreading was observed to be larger than expected for open-terrain values relative to Pasquill-Gifford estimates of σ_y . This departure from expected σ_y values was not related to downwind distance. The enhanced lateral spreading at the EOGR site in SE Idaho was well explained by larger-than-expected variance in horizontal wind direction. When the observed standard deviation of horizontal wind direction was below a certain value (about 10 to 15° for EOGR) an enhanced lateral plume spreading (not explained by use of σ_θ in calculations) within the turbulent wake became evident; calculated tracer σ_y values were significantly larger (2 to 4 times) than predicted by σ_θ measurements. Apparently, during the course of usual wind direction meandering in the atmosphere, minimal building induced plume broadening effect was evident for average one-hour plume concentration distributions. Obviously, for nearly instantaneous samplings of effluent plume, the quasi-instantaneous plume must have had initial plume broadening (easily seen from visual tracer plumes near the structure); this initial broadening usually was small compared to the plume broadening due to wind direction meandering. Physical modeling results should contain a noticeable effect of the structure and provide guidance on lateral plume spreading behavior for relatively short (a few minutes) sampling times, but physical modeling would not describe broadening due to meandering, without some adjustment.

The downwind extent of structure altered σ_z values (shown by RZ ratios) appeared to be 400m to 800m (about 16 to 32 reference lengths, where a reference length is distance divided by structure height (=25m). Differences in σ_y (shown by RY ratios) were mostly related to the amount of wind direction meandering and appeared to be independent of downwind distance. Maximum (peak) ground-level tracer concentrations for ground-level tracer releases were 3 to 4 times less

than expected at 800 to 1600m downwind (about 32 to 64 reference lengths) when the average concentration ratio (RC) was divided by the average σ_y (RY) ratio. Thus, these tracer plumes still appeared to be more elevated than the 1m physical height of release (the value used to calculate the expected concentration from the Gaussian formula) or the vertical gradients of concentration were less than expected for a Gaussian distribution. Concentrations for roof-level tracer release were essentially as expected from the Gaussian formula at 800m and farther downwind when they were divided by the average RY value. In the same manner, ground-level concentrations of stack discharged tracer were about five to ten times greater than expected from the Gaussian formula, i.e., when adjusted for greater lateral spreading than predicted from P/G curves of σ_y . Apparently the effects of downwash had not yet been compensated by vertical diffusion processes to the extent that calculations made with the Gaussian equation were free of a substantial bias for under-calculation.

Estimates of ground-level concentrations within the downwind wake of the EOCR structure were not well calculated if the off-axis plume concentrations were determined by inclusion of the customary Gaussian exponentail function of σ_z and H. A downwash of elevated plumes and an uplifting of ground-level plume occurred. In the presence of systematic, non-random vertical motions within the wake of the structure (especially within the cavity or near-building zone) use of the exponentail Gaussian-distribution adjustment is not recommended. Better estimated concentrations (even though biased toward over-calculation) were obtained if plume centerlines were assumed to occur near ground-level (e.g. figure 20d). Inclusion of an add-on term (+cA) in the denominator of the Gaussian diffusion equation (eqn.8) did relatively little to improve accuracy of calculations. It seemed that a downwash factor (adjusting both ground-level and elevated effluent releases) would be more appropriate. This mixed mode of release appeared to be a better concept for revision of ground-level tracer concentrations derived from the Gaussian equation. Ground-level concentration estimates might better be determined by a partitioning of the source into a fraction transported vertically and a fraction remaining near release height. The source term for elevated tracer releases would have a fraction of the effluent transported to near ground-level through downwash effects and a fraction remaining elevated.

6.0 RECOMMENDATIONS

A number of additional features of building wake effects should be examined from this data set. The fractions of source effluent which appeared to be displaced from the height of release should be evaluated to examine quantitatively the mixed mode of release behavior.

Specialized wind fluctuation data exist for the 100m arc and these data should be related to physical modeling information such as described by Peterka and Cermak (1975).

Several alternate schemes for calculation of plume concentrations, dimensions, etc., (some semi-empirical), have been proposed for application to the cavity and wake zones of structures. These data might be used to evaluate the performance of these schemes.

Calculation of additional meteorological wind fluctuation statistics should be performed (Hunt, 1980) to examine the reasons for large σ_θ and σ_y , and to explore a theoretical method for calculation of σ_z .

Additional quantitative measurements of vertical diffusion effects in the transition zone are desirable. These data would more clearly describe the apparent slower-than-ambient rate of diffusion operative on plumes within wakes compared to plumes outside structural turbulent wakes. SRI collected LIDAR data touched upon this behavior but the quantitative data were not available to complete this investigation.

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Mrs. Lydia Thorngren typed and proof-read the manuscript.

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APPENDIX A: Supplemental Meteorological Data

The following tables contain data from the instruments located on the tower northwest of the reactor building. Nuclear Regulatory Commission (NRC) criteria are used in determining stability classes. These criteria, based upon lapse rate, are listed by Start, et al., (1977), page 15.

Table A-1. Date, time, temperatures, and stability versus test.

Test No.	Date	Start Time 1	Stop Time 1	T4m ²	T20m ²	T30m ²	$\Delta T/\Delta Z^3$	STAB ⁴
3	7/8	0606	0706					F*
4	7/9	0559	0649	62.73	63.51	63.95	1.22	E
5	7/18	1007	1107	77.95	76.37	74.39	-5.50	A
6	7/21	0624	0724	58.90	59.60	59.24	-1.00	D
7	7/22	0543	0630					G
8	7/24	0348	0417	56.37	59.24	60.52	3.56	F
9	7/28	0503	0603	56.74	59.02	67.45	23.42	G
10	7/31	1024	1107	61.11	60.18	59.22	-2.67	A
11	8/12	1008	1035	76.11	74.63	73.55	-3.00	A
12	8/13	0642	0712	55.78	55.68	55.69	0.03	E
13	8/14	1017	1117	75.26	73.74	72.37	-3.81	A
14	5/6	0619	0719	48.62	48.92	48.86	-0.17	E
15	5/12	0618	0718	44.38	44.32	43.88	-1.22	D
16	5/18	0616	0716	54.43	53.80	53.32	-1.33	D
17	5/21	0451	0551	31.60	33.74	38.39	12.92	G
18	6/23	0435	0535	44.53	46.17	47.51	3.72	F
19	6/29	0329	0429	52.31	54.64	58.43	10.53	G
20	6/30	0344	0442	60.94	62.60	64.54	5.39	G
21	7/15	0344	0444	55.39	58.11	59.93	5.06	G
22	7/16	0742	0842	73.88	73.11	73.10	-0.03	E
23	7/21	0748	0846	68.04	67.13	67.29	0.44	E
24	7/22	0814	0914	71.15	70.05	70.68	-1.75	F

*Based on cloud cover, time of day, and season (no met data)

- 1 Times are given in Mountain Standard Time
- 2 Temperature in degrees F at indicated heights
- 3 $\Delta T/\Delta Z$ in $^{\circ}\text{C}/100\text{m}$ (based on $T_{30\text{m}} - T_{10\text{m}}$)
- 4 NRC Stability class.

Table A-2. Averaged wind speeds and directions versus test for 4, 10, and 30m heights.

Test	4m Dir	4m σ_{θ}	4m Spd ³	10m Dir ¹	10m σ_{θ} ²	10m Spd ³	30m Dir ¹	30m σ_{θ} ²	30m Spd ³
3			0.5			0.8			1.3
4	20.2	11.6	3.05	24.9	9.3	3.66	14.6	5.1	4.52
5	245.8	14.0	7.38	245.9	12.7	8.09	247.3	12.1	9.05
6	54.7	35.1	1.77	44.1	33.8	1.98	42.7	26.4	2.80
7			0.5			0.5			0.7
8	305.4	52.3	0.92	294.2	37.3	1.28	342.5	28.0	1.86
9	357.0	38.9	1.96	15.7	25.7	3.03	28.8	13.8	4.10
10			3.2	178.1	159.5	3.45	192.7	156.0	3.75
11	40.1	89.2	1.50	39.3	86.9	1.47	30.5	102.5	1.54
12	39.7	12.6	2.33	41.6	11.1	2.46	43.0	7.2	3.57
13	17.3	51.9	1.89	21.7	48.4	1.98	17.9	39.3	2.17
14	46.6	8.9	6.56	46.4	7.4	7.81	47.5	5.9	9.50
15	18.0	23.8	2.02	19.6	22.7	4.25	20.1	22.7	4.91
16	22.6	23.6	3.14	22.8	22.7	3.35	27.6	19.8	3.69
17	347.9	67.3	1.17	1.7	44.0	1.55	26.2	23.9	2.53
18	38.7	17.2	4.12	37.1	15.9	5.01	32.3	14.9	6.89
19	11.4	22.0	1.08	20.1	22.0	2.57	38.6	15.3	4.54
20	31.4	22.1	1.55	36.2	18.2	3.62	45.3	11.7	5.64
21	8.9	21.3	1.36	19.4	17.9	3.12	27.0	13.5	3.96
22	34.4	17.3	2.4	33.5	16.0	4.23	19.5	13.3	4.69
23	28.1	22.0	1.88	28.2	20.5	3.02	15.6	16.1	3.28
24	28.4	25.7	1.83	28.2	22.7	3.01	18.0	19.0	3.19

- 1 Average wind direction in degrees from true north
- 2 Standard deviation of horizontal wind direction in degrees.
- 3 Average wind speed in m/sec

APPENDIX B: Two Minute Interval Wind Data for Each Test

This appendix gives the values of wind statistics averaged over two minute intervals during each test. Data given are given for the heights of 4m, 10m, and 30m.

Definitions of labels used.

TEST	Number of test
DATE	Date of test composed of six digits in the form YYMMDD. YY is the last two digits of the year, MM is the number of the month, and DD is the day of the month.
TIME	Time (MST) of end of two minute interval composed of six digits in the form hhmmss where hh is the hour, mm is the minute, and ss is the second.
NUM PTS	Number of wind observations taken during the two minute interval at each height
4M DIR	Two minute average wind direction in degrees at 4m.
10M DIR	Two minute average wind direction in degrees at 10m.
30M DIR	Two minute average wind direction in degrees at 30m.
4M DSD	Standard deviation of the wind direction in degrees during the two minute interval at 4m.
10M DSD	Standard deviation of the wind direction in degrees during the two minute interval at 10m.
30M DSD	Standard deviation of the wind direction in degrees during the two minute interval at 30m.
4M DVAR	Variance of the wind direction in deg^2 during the two minute interval at 4m.
10M DVAR	Variance of the wind direction in deg^2 during the two minute interval at 10m.
30M DVAR	Variance of the wind direction in deg^2 during the two minute interval at 30m.
4M SPD	Two minute average wind speed in m/sec at 4m.
10M SPD	Two minute average wind speed in m/sec at 10m.
30M SPD	Two minute average wind speed in m/sec at 30m.

- 4M SSD   Standard deviation of the wind speed in m/sec during the two minute interval at 4m.
- 10M SSD   Standard deviation of the wind speed in m/sec during the two minute interval at 10m.
- 30M SSD   Standard deviation of the wind speed in m/sec during the two minute interval at 30m.

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
1 4.0000 21.140 63.140 5.3813	7.50709E+05 10.342 37.466 0.36810	70109. 7.9461 2.9817 0.38454	11.000 6.1209 2.2972 7.96954E-02	16.930 1.7268 3.0322
2 4.0000 19.995 26.816 5.3516	7.50709E+05 12.229 17.667 0.20747	70329. 5.1705 0.89680 0.34271	12.000 4.2032 2.7887 7.67400E-02	13.413 0.94805 3.5808
3 4.0000 22.644 57.023 5.7651	7.50709E+05 14.276 20.654 0.45254	70529. 7.5514 1.1202 0.37556	11.000 5.3529 3.0033 0.16320	15.314 1.0622 3.6014
4 4.0000 22.681 70.735 4.4511	7.50709E+05 14.501 26.027 0.33416	70729. 8.4104 106.33 0.37384	12.000 5.1017 3.0148 2.1612	15.623 10.408 3.6020
5 4.0000 18.924 124.14 2.4082	7.50709E+05 13.350 29.295 0.63993	70929. 11.142 375.90 0.40503	12.000 5.4125 3.1979 2.4056	19.988 19.308 4.0430
6 4.0000 23.646 32.625 0.71926	7.50709E+05 13.965 34.832 0.35460	71129. 5.7118 12.482 0.41176	12.000 5.9019 3.6379 2.09058E-02	21.794 3.5216 4.3345
7 4.0000 21.696 80.563 4.2966	7.50709E+05 14.086 55.332 0.38724	71329. 8.9757 119.06 0.49999	12.000 7.4426 3.2145 2.0516	17.379 10.911 3.9662

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
8 4.0000 18.412 145.45 4.4195	7.50709E+05 11.725 47.024 0.40954	71529. 12.060 54.531 0.48316	12.000 6.8574 3.0630 1.1965	9.0653 7.3045 3.6542
9 4.0000 17.993 116.73 4.9228	7.50709E+05 9.8132 52.378 0.43064	71729. 10.804 26.227 0.32315	12.000 7.2373 2.9408 0.41505	13.645 5.1212 3.5129
10 4.0000 23.446 176.26 4.9023	7.50709E+05 14.752 63.118 0.39927	71929. 13.276 50.808 0.45999	12.000 7.9447 2.9014 1.1033	23.093 7.1280 3.4857
11 4.0000 29.619 27.114 5.2344	7.50709E+05 13.649 89.107 0.51141	72129. 5.2071 25.551 0.50643	12.000 9.4396 3.5464 0.34322	17.986 5.0548 3.9287
12 4.0000 21.541 63.154 5.2293	7.50709E+05 14.707 34.177 0.53386	72329. 7.9470 12.414 0.47063	11.000 5.8461 3.2921 0.34738	19.576 3.5233 3.7274
13 4.0000 29.921 127.96 5.1618	7.50709E+05 18.074 60.020 0.49187	72529. 11.312 7.0401 0.58315	12.000 7.7473 2.6853 0.42701	25.250 2.6533 3.2680
14 4.0000 33.289 99.407 4.7111	7.50709E+05 18.644 75.373 0.49484	72729. 9.9703 24.747 0.46113	12.000 8.6018 2.6970 0.35193	27.743 4.9746 3.2074

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
15 4.0000 37.425 51.087 4.6327	7.50709E+05 20.647 49.692 0.41742	72929. 7.1475 32.321 0.39982	12.000 7.0492 2.9588 0.53204	35.852 5.6852 3.5150
16 4.0000 40.788 76.500 4.9170	7.50709E+05 20.809 72.008 0.47247	73039. 8.7464 37.723 0.51114	8.0000 8.5327 3.5080 0.40736	35.552 6.1419 3.5657
17 5.0000 257.34 99.860 9.2950	7.50718E+05 261.36 75.913 1.0503	1.10900E+05 9.9529 82.926 0.95451	12.000 8.7128 7.6966 1.1013	263.23 9.1064 8.4244
18 5.0000 268.30 84.564 6.8642	7.50718E+05 271.16 41.207 0.94298	1.11100E+05 9.1959 43.439 1.0312	12.000 6.4192 5.8510 0.77551	264.04 6.5908 6.3803
19 5.0000 243.85 1839.1 0.1748	7.50718E+05 244.97 1047.8 1.5493	1.11550E+05 42.884 608.62 2.0369	2.0000 32.370 5.7579 1.9077	250.26 20.440 7.0993
20 5.0000 247.51 219.20 6.4480	7.50718E+05 245.83 149.58 1.3661	1.11750E+05 14.806 180.63 1.6999	12.000 12.230 5.3918 1.6244	246.65 13.440 5.9109
21 5.0000 245.41 267.28 0.5893	7.50718E+05 244.20 132.52 2.2484	1.11950E+05 16.349 123.78 2.5132	12.000 11.512 6.4187 2.5112	243.90 11.126 7.3897

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
22 5.0000 254.05 68.613 6.9605	7.50718E+05 250.96 130.46 1.2961	1.12150E+05 8.2833 30.918 1.0015	12.000 11.422 7.2274 1.0829	252.32 5.5604 8.0491
23 5.0000 241.81 182.67 9.3760	7.50718E+05 244.79 74.638 1.3796	1.12350E+05 10.133 21.497 1.3082	12.000 8.6393 7.5734 0.99791	239.26 4.6364 0.0020
24 5.0000 238.47 100.08 9.2247	7.50718E+05 239.15 116.15 1.2549	1.12550E+05 10.004 111.89 1.3706	12.000 10.777 7.1232 1.9147	239.97 10.578 7.9550
25 5.0000 243.54 49.284 11.352	7.50718E+05 244.08 62.550 1.1954	1.12750E+05 7.0202 17.076 1.2431	12.000 7.9088 9.3980 0.96482	242.25 4.2280 10.595
26 5.0000 231.07 64.634 9.7147	7.50718E+05 233.68 34.726 1.1390	1.12950E+05 8.0395 33.512 1.0480	12.000 5.8929 0.1278 0.95976	228.74 5.7889 0.0067
27 5.0000 221.76 0.00000 6.9023	7.50718E+05 236.86 0.00000 0.00000	1.13230E+05 0.00000 0.00000 0.00000	1.0000 0.00000 5.6148 0.00000	238.08 0.00000 6.4642
28 5.0000 240.06 64.873 10.081	7.50718E+05 238.30 19.457 1.0540	1.13430E+05 8.0045 9.7583 1.0526	12.000 4.4110 0.7058 0.70586	236.17 3.1239 10.102

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
29 5.0000	7.50718E+05	1.13630E+05	12.000	242.47
243.65	247.65	11.513	10.596	5.3730
132.55	112.27	28.877	0.4093	9.1712
10.745	2.0761	1.0855	1.4376	
30 5.0000	7.50718E+05	1.13030E+05	12.000	247.00
248.84	246.60	12.553	10.195	9.9622
157.59	103.93	99.245	0.0073	0.8724
9.5183	1.0989	1.1620	1.4227	
31 5.0000	7.50718E+05	1.14030E+05	12.000	250.57
246.04	254.08	7.1707	12.444	11.487
51.534	154.85	131.96	7.0454	7.6211
0.4777	1.9170	1.7585	1.0641	
32 5.0000	7.50718E+05	1.14230E+05	12.000	251.39
251.36	253.89	13.593	11.035	7.6970
104.77	121.78	59.244	6.7207	7.4978
0.7354	1.3089	1.2195	1.2204	
33 5.0000	7.50718E+05	1.14550E+05	1.0000	249.74
263.26	250.74	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	5.2125	5.0024
6.9157	0.00000	0.00000	0.00000	
34 5.0000	7.50718E+05	1.14750E+05	12.000	240.11
233.83	234.79	13.673	9.3197	10.171
106.96	06.858	103.45	6.4495	7.1569
7.0609	1.1007	0.99295	1.2750	
35 5.0000	7.50718E+05	1.14910E+05	9.0000	249.41
246.24	247.58	0.6627	7.0124	10.441
75.042	49.174	109.00	7.0859	0.4236
9.7993	2.0372	1.7727	2.0020	

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
43 6.0000	7.50721E+05	74000.	12.000	67.324
56.090	50.456	9.6333	9.2043	5.1423
92.001	84.719	26.444	1.4422	1.5725
3.0355	0.17907	0.25507	0.25603	
44 6.0000	7.50721E+05	74200.	12.000	92.693
76.603	66.177	14.042	13.728	6.6650
197.19	100.46	44.435	1.4705	1.6016
2.6313	0.30602	0.27106	0.27122	
45 6.0000	7.50721E+05	74400.	12.000	106.64
97.104	84.652	10.638	0.3129	6.3242
113.17	69.105	39.995	1.6140	1.7667
2.7364	0.20239	0.20210	0.34036	
46 6.0000	7.50721E+05	74600.	12.000	126.37
110.67	91.590	10.404	5.4678	4.4692
100.25	29.097	19.974	1.2640	1.6905
2.7614	0.23107	0.20104	0.27160	
47 6.0000	7.50721E+05	74800.	12.000	112.04
96.713	81.900	14.449	9.4960	4.0354
208.79	90.174	23.301	1.2579	1.3292
2.5503	0.23302	0.25367	0.10028	
48 6.0000	7.50721E+05	75000.	12.000	102.50
92.131	81.142	9.0307	10.477	7.4014
96.799	109.76	54.700	0.99600	1.2022
2.9052	0.34074	0.49057	0.35074	
49 6.0000	7.50721E+05	75200.	12.000	99.732
97.485	80.443	11.550	0.5960	6.0907
133.41	73.090	37.207	1.6400	1.0504
3.0293	0.42223	0.36391	0.50921	

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
36 6.0000	7.50721E+05	72600.	12.000	15.020
5.0070	23.390	4.7390	5.6465	2.9501
22.465	31.003	0.7503	2.5201	2.7674
3.9000	0.27397	0.12523	0.11260	
37 6.0000	7.50721E+05	72800.	12.000	15.755
5.7037	16.090	7.1545	5.9709	4.1666
51.107	35.651	17.361	2.5111	2.0702
3.9464	0.20210	0.34166	0.16905	
38 6.0000	7.50721E+05	73000.	12.000	29.420
14.065	19.952	11.736	9.2910	2.0062
137.74	06.323	0.3299	2.1051	2.0179
3.0017	0.32690	0.25391	0.14900	
39 6.0000	7.50721E+05	73200.	12.000	36.983
23.700	25.239	7.6556	0.9705	6.5401
50.600	00.614	42.077	2.2516	2.4002
3.5564	0.34307	0.40196	0.30372	
40 6.0000	7.50721E+05	73400.	12.000	50.510
43.290	30.604	12.375	13.206	5.4013
153.15	174.41	29.174	1.5355	1.7991
3.2015	0.20256	0.43152	0.30605	
41 6.0000	7.50721E+05	73600.	12.000	62.130
51.495	43.600	6.9345	5.0946	3.4121
40.007	34.746	11.643	1.0123	1.9500
2.7160	0.26259	0.20395	0.15995	
42 6.0000	7.50721E+05	73800.	12.000	56.140
44.693	47.523	7.9462	6.0325	5.9005
63.142	36.391	35.062	1.6295	1.7702
2.7572	0.22040	0.10697	0.29375	

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
50 6.0000	7.50721E+05	75400.	12.000	97.260
02.749	71.467	15.344	0.4550	0.4041
235.45	71.501	70.629	1.5929	2.0176
2.9469	0.30040	0.24706	0.52961	
51 6.0000	7.50721E+05	75600.	12.000	02.742
00.946	65.630	6.2197	7.3595	5.0204
30.605	54.162	33.970	1.0754	1.9002
2.6327	0.31227	0.33904	0.32201	
52 6.0000	7.50721E+05	75800.	12.000	64.404
45.210	51.129	0.5631	10.434	0.0037
73.327	100.06	65.346	1.2754	1.3636
2.2543	0.17300	0.24060	0.33302	
53 6.0000	7.50721E+05	00000.	12.000	50.037
46.999	50.150	0.1700	13.570	6.7042
66.762	104.15	46.025	1.3400	1.6540
2.4046	0.10535	0.39543	0.29000	
54 6.0000	7.50721E+05	00200.	12.000	55.423
45.240	52.650	11.046	10.743	6.1540
122.01	115.42	37.071	1.4427	1.6075
2.4620	0.24647	0.31545	0.26267	
55 6.0000	7.50721E+05	00400.	12.000	37.646
30.973	40.230	0.9040	12.130	7.4330
00.726	147.34	55.261	1.4000	1.4990
2.6200	0.26730	0.29602	0.33107	
56 6.0000	7.50721E+05	00600.	12.000	30.734
23.572	27.615	10.560	11.993	0.9550
111.52	143.03	00.206	1.9942	1.9970
2.4322	0.25402	0.32905	0.42221	

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
57	6.0000 13.237 43.476 2.5354	7.50721E+05 22.413 116.50 0.20007	00000. 6.5936 99.296 0.10047	12.000 10.793 1.6419 0.27111	21.336 9.9647 1.9233
58	6.0000 9.7023 62.211 2.1270	7.50721E+05 14.500 166.49 0.32349	01000. 7.0074 169.53 0.25087	12.000 12.903 1.6182 0.30595	10.947 13.020 1.6075
59	6.0000 9.5523 30.957 2.2346	7.50721E+05 10.620 84.104 0.37662	01200. 5.5639 100.42 0.33693	12.000 9.1700 2.1691 0.21850	22.113 10.412 2.1584
60	6.0000 17.235 116.70 2.2243	7.50721E+05 21.433 45.496 0.40607	01400. 10.003 65.397 0.26502	12.000 6.7451 2.0545 0.27411	26.733 8.0060 2.1317
61	6.0000 18.330 115.62 2.4477	7.50721E+05 13.915 242.52 0.40461	01600. 10.753 121.26 0.42504	12.000 15.573 1.9544 0.19552	20.260 11.012 2.1274
62	6.0000 13.139 300.72 2.6717	7.50721E+05 12.663 95.052 0.33332	01800. 17.341 70.496 0.25093	12.000 9.7495 2.2006 0.27610	19.535 8.0590 2.4030
63	6.0000 17.452 170.60 2.5532	7.50721E+05 10.070 200.40 0.35060	02000. 13.367 205.01 0.40150	12.000 14.159 1.0611 0.37235	35.919 14.353 2.2437

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
64	6.0000 19.925 127.04 2.3304	7.50721E+05 21.473 125.30 0.35003	02200. 11.271 90.205 0.35174	12.000 11.194 1.0160 0.41075	34.397 9.9099 2.0030
65	6.0000 21.154 56.795 2.5121	7.50721E+05 23.300 7.7590 0.22004	02220. 7.5362 121.99 0.17170	3.0000 2.7055 1.0341 0.21913	19.006 11.045 1.9600
66	7.0000 45.435 13104. 36637.	7.50722E+05 240.13 41700. 0.6293.	05610. 114.02 0.634.5 2.5577	11.000 204.40 32652. 1.06001E+05	330.65 92.922 0.72374
67	7.0000 153.94 10.702 1.6277	7.50722E+05 110.54 39.561 0.77790E-02	05930. 4.3246 10.905 9.90702E-02	10.000 6.2090 1.0066 9.79257E-02	147.50 3.3023 1.2516
68	7.0000 93.545 10079. 46200.	7.50722E+05 110.45 4433.1 0.7650.	00250. 134.46 21100. 1.30437E+05	12.000 66.502 23356. 1.30107E+05	117.01 145.20 54772.
69	7.0000 249.53 3.3010 45250.	7.50722E+05 322.32 7755.4 1.53425E+05	00510. 1.0307 16903. 1.60004E+05	11.000 00.065 46262. 1.09460E+05	100.39 130.01 54442.
70	7.0000 199.30 17020. 15.597	7.50722E+05 227.07 7027.0 1.45353E+05	00930. 131.15 20207. 11927.	11.000 03.832 00564. 39.120	321.20 142.43 4007.6

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
71	7.0000 253.99 14.407 0.36974	7.50722E+05 63.003 13.416 7.43601E-02	71250. 3.7957 549.97 0.10302	10.000 3.6620 1.2999 0.23357	259.20 23.451 1.3711
72	7.0000 264.06 35.009 0.00269	7.50722E+05 310.00 17.600 0.17919	71750. 5.9169 67.391 7.72601E-02	10.000 4.2069 1.3215 0.12097	257.72 0.2092 1.2031
73	7.0000 273.91 53400. 77254.	7.50722E+05 199.01 22196. 1.71177E+05	72250. 231.00 5307.3 2.22267E+05	12.000 140.90 29456. 1.65367E+05	302.93 72.051 95050.
74	7.0000 291.51 19.057 0.09707	7.50722E+05 330.70 30.230 5.05525E-02	72410. 4.4561 137.57 7.49040E-02	9.0000 5.4909 1.3547 0.14994	279.04 11.729 1.3339
75	8.0000 317.65 162.70 2.2597	7.50724E+05 11.756 94.000 0.10160	45000. 12.750 52.529 0.25666	12.000 9.7369 0.00142 0.21070	333.26 7.2477 1.5130
76	8.0000 335.00 00.019 1.0511	7.50724E+05 8.9453 04.900 6.51302E-02	45200. 0.9453 04.567 0.15760	12.000 9.2146 0.03767 0.20420	5.2026 9.1960 1.2722
77	8.0000 335.73 153.99 2.0407	7.50724E+05 9.9409 90.643 0.13019	45400. 12.400 12.010 0.21107	12.000 9.5207 0.95623 0.10336	5.4793 3.4667 1.3041

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
78	8.0000 323.49 92.630 1.9261	7.50724E+05 4.3369 37.575 6.66731E-02	45600. 9.6249 19.545 0.13764	12.000 6.1290 0.03494 0.12252	340.00 4.4210 1.3075
79	8.0000 297.10 243.73 1.4750	7.50724E+05 330.06 319.09 0.21556	45000. 15.612 151.00 0.23703	12.000 17.000 0.00790 0.26213	314.15 12.200 0.97991
80	8.0000 239.70 61.516 1.4579	7.50724E+05 314.12 161.14 0.40307	50000. 7.0432 40.007 0.23952	13.000 12.694 1.6327 0.16363	250.62 6.3943 1.5971
81	8.0000 252.94 67.799 1.6396	7.50724E+05 311.05 20.334 0.16503	50200. 0.2340 77.252 9.36149E-02	12.000 5.3229 0.69667 0.24033	241.41 0.7093 0.04276
82	8.0000 269.20 200.70 2.1664	7.50724E+05 312.63 96.253 0.54996E-02	50400. 14.170 147.77 0.10909	12.000 9.0109 0.62044 0.46736	247.97 12.156 1.1166
83	8.0000 255.70 106.29 2.0004	7.50724E+05 323.42 59.611 5.96011E-02	50430. 13.649 190.77 0.40069	4.0000 7.7200 0.55772 0.30540	250.14 14.009 1.5651
84	9.0000 19.373 319.43 1.2606	7.50720E+05 63.243 77.110 0.71369	60501. 17.073 396.01 0.53219	50.000 0.7017 1.0310 0.23134	351.34 19.900 1.3561

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
85	9.0000 347.25 218.50 1.7583	7.50728E+05 12.079 126.41 0.69180	60701. 14.782 176.65 0.39795	60.000 11.243 2.3413 0.37799	321.62 13.291 2.4935
86	9.0000 337.58 85.974 2.2219	7.50728E+05 349.47 49.041 0.29122	60902. 9.2722 36.441 0.45364	31.000 7.0029 2.2290 0.27430	301.77 6.0366 2.6574
87	9.0000 345.19 97.527 2.2660	7.50728E+05 5.1545 30.349 0.32813	61102. 9.0756 38.339 0.62893	59.000 5.5090 1.6149 0.15263	322.00 6.1919 2.8737
88	9.0000 314.03 707.04 2.6127	7.50728E+05 8.6230 220.57 0.25418	61302. 26.590 137.50 0.36044	60.000 14.852 0.59792 0.17187	245.83 11.726 1.3847
89	9.0000 4.0446 349.47 2.0120	7.50728E+05 27.748 27.878 0.51075	61502. 18.694 13.502 0.24012	60.000 5.2800 0.48856 0.20189	3.4693 3.6854 1.0263
90	9.0000 351.69 69.788 2.3802	7.50728E+05 22.051 66.745 0.18943	61702. 8.3539 13.360 0.24138	60.000 0.1698 1.5956 0.31645	333.73 3.6551 2.4538
91	9.0000 336.81 56.472 3.2472	7.50728E+05 15.209 16.042 0.19229	61902. 7.5148 9.5854 0.25087	60.000 4.0052 1.4697 0.00228E-02	313.79 3.0968 2.2970

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
99	9.0000 20.140 31.121 4.3846	7.50728E+05 29.040 17.370 0.18204	63502. 5.5706 0.34646 0.15390	60.000 4.1677 2.3960 4.61943E-02	1.7617 0.58861 3.6016
100	9.0000 30.651 42.520 4.6076	7.50728E+05 30.647 13.564 0.14403	63702. 6.5207 6.3627 0.17374	60.000 3.6830 2.2189 0.19482	7.0029 2.5224 3.5501
101	9.0000 41.590 38.097 5.4437	7.50728E+05 35.663 22.636 0.18089	63902. 6.2368 2.1368 0.29236	60.000 4.7577 2.4388 0.16781	24.779 1.4518 3.8533
102	9.0000 47.049 53.241 4.9268	7.50728E+05 38.052 12.357 0.34243	64102. 7.2966 2.1737 0.24392	60.000 3.5153 2.3407 0.13285	31.617 1.4743 3.9955
103	9.0000 28.052 38.4.69 4.7766	7.50728E+05 35.283 27.441 0.28553	64302. 19.614 48.738 0.51786	60.000 16.565 2.1252 0.49309	8.7901 6.9013 3.1574
104	9.0000 46.943 41.151 5.0092	7.50728E+05 39.085 8.8560 0.35681	64502. 6.4149 2.7237 0.22840	60.000 2.9759 2.8684 0.14330	35.641 1.6504 4.3296
105	9.0000 42.106 123.28 5.7856	7.50728E+05 34.587 60.881 0.31391	64702. 11.183 3.2022 0.45803	60.000 7.0026 2.4892 0.24177	25.851 1.7895 3.6218

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
92	9.0000 359.82 558.14 3.3313	7.50728E+05 25.758 91.276 0.12612	62102. 23.625 20.591 0.23476	60.000 9.5538 0.71786 0.18798	354.78 4.5377 2.0198
93	9.0000 357.34 29.826 3.3734	7.50728E+05 18.472 27.445 0.18563	62302. 5.4613 74.363 0.29163	60.000 5.2388 1.4551 0.24043	345.67 8.6234 2.4058
94	9.0000 350.97 113.69 3.2998	7.50728E+05 24.596 100.43 0.25157	62502. 10.662 23.973 0.30909	60.000 4.0822 1.3655 0.13665	322.01 4.0962 2.4350
95	9.0000 2.4063 77.795 3.5098	7.50728E+05 21.321 83.718 0.42389	62702. 9.0202 0.0412 0.30852	60.000 9.1498 2.0437 0.12560	342.86 2.8357 3.1992
96	9.0000 9.1616 43.761 3.9297	7.50728E+05 25.467 6.2947 0.29335	62902. 6.6152 6.4851 0.11368	60.000 2.5089 2.0459 0.10917	353.27 2.5466 3.3555
97	9.0000 12.497 32.996 4.1196	7.50728E+05 28.624 12.113 0.18059	63102. 5.7442 2.0245 9.36467E-02	60.000 3.4803 2.0594 7.74567E-02	357.35 1.4228 3.4137
98	9.0000 16.901 24.130 4.0401	7.50728E+05 27.557 10.158 0.20546	63302. 4.9122 2.6713 9.50183E-02	60.000 3.1872 2.4142 0.11016	356.50 3.4522

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
106	9.0000 25.179 55.543 5.6719	7.50728E+05 31.663 23.827 0.22746	64903. 7.4527 5.4700 0.17326	60.000 4.0813 2.0660 0.17574	2.8537 2.3389 2.9218
107	9.0000 15.002 122.64 4.9041	7.50728E+05 34.630 69.367 0.19068	65103. 11.074 8.7185 0.16108	60.000 8.3287 1.6994 0.21182	352.75 2.9527 2.6746
108	9.0000 38.367 101.55 5.4138	7.50728E+05 32.874 61.279 0.27068	65303. 10.077 2.5023 0.39134	60.000 7.8281 1.9528 0.15944	17.574 1.5819 3.3535
109	9.0000 21.857 312.24 4.7241	7.50728E+05 34.321 201.92 0.35742	65503. 17.670 31.522 0.45610	60.000 14.210 1.9579 0.37634	1.8156 5.6145 2.7374
110	9.0000 37.900 74.857 5.5283	7.50728E+05 34.495 19.167 0.24187	65703. 8.6856 11.392 0.24038	58.000 4.3780 2.2897 0.31657	28.846 3.3752 3.6359
111	9.0000 42.664 47.155 5.9482	7.50728E+05 37.078 12.651 0.29711	65904. 6.8678 1.4969 0.24869	60.000 3.5568 2.6130 0.13916	30.044 1.2235 4.0155
112	9.0000 44.752 29.785 5.6562	7.50728E+05 38.186 15.028 0.24249	70104. 5.4502 1.1104 0.24058	60.000 3.8765 2.3937 0.10118	33.712 1.0538 3.5498

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
113 9.0000 48.129 50.857 5.7070	7.50720E+05 41.495 29.672 0.35816	70300. 7.6719 0.88434 0.32063	59.000 5.4472 2.5557 9.90695E-02	35.390 0.94039 3.4272
114 10.000 146.22 3723.3 3.1729	7.50731E+05 130.60 7223.1 0.73356	1.12636E+05 61.019 299.74 2.3094	41.000 84.989 0.66301 1.0303	141.37 17.313 1.4330
115 10.000 161.79 204.52 3.0727	7.50731E+05 176.60 123.13 0.90553	1.12037E+05 14.301 49.539 0.55895	57.000 11.056 2.7484 0.52770	174.30 7.0384 3.0114
116 10.000 174.01 554.75 2.2146	7.50731E+05 176.10 96.460 0.70020	1.13030E+05 23.553 194.20 0.52435	54.000 9.0218 1.4803 0.70191	177.98 13.930 1.9653
117 10.000 147.85 3023.5 3.6459	7.50731E+05 164.62 604.70 1.1264	1.13239E+05 61.034 160.90 1.4303	44.000 24.591 0.75566 0.60017	153.30 12.605 2.9346
118 10.000 149.22 1061.0 4.2333	7.50731E+05 160.74 59.374 0.16569	1.13639E+05 32.572 43.520 0.40307	40.000 7.7054 9.02274E-02 0.29586	164.00 6.5970 3.0610
119 10.000 160.13 1177.7 2.2054	7.50731E+05 175.10 193.71 1.2920	1.13839E+05 34.317 181.46 0.85460	40.000 13.918 1.5190 0.00623	157.76 13.471 3.0709

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
120 10.000 173.14 670.06 4.3034	7.50731E+05 196.22 135.60 0.77137	1.14039E+05 26.040 151.60 0.31000	40.000 11.648 0.31505 0.42249	100.54 12.316 4.2275
121 10.000 184.56 1317.6 3.9090	7.50731E+05 187.26 53.440 1.2709	1.14239E+05 36.290 90.982 0.50700	40.000 7.3103 1.4604 0.54200	203.57 9.9409 3.6244
122 10.000 163.10 1570.1 4.3448	7.50731E+05 170.02 45.550 0.71469	1.14439E+05 39.624 40.040 0.61956	40.000 6.7491 0.36511 0.60300	160.20 6.9006 4.0559
123 10.000 169.60 192.24 2.3551	7.50731E+05 176.44 33.607 0.79645	1.14639E+05 13.865 55.020 0.50296	40.000 5.0041 0.97116 0.54429	104.41 7.4713 2.3537
124 10.000 152.50 3609.0 4.2149	7.50731E+05 167.54 1755.3 0.35946	1.14839E+05 60.075 177.09 1.9026	40.000 41.096 0.34101 0.75917	141.09 13.307 2.6109
125 10.000 174.00 095.15 3.3076	7.50731E+05 202.51 140.57 0.29651	1.15039E+05 20.375 130.35 0.00034	40.000 11.056 0.21036 0.70631	192.76 11.417 3.2051
126 10.000 215.39 3404.8 1.7527	7.50731E+05 235.81 190.07 0.17450	1.15239E+05 50.350 204.64 0.45006	40.000 13.767 0.11911 0.34005	212.50 14.305 1.7227

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
127 10.000 184.92 060.74 3.1941	7.50731E+05 192.24 75.858 0.69191	1.15439E+05 29.330 152.01 0.54339	40.000 0.7097 0.73133 0.54070	186.71 12.329 2.5716
128 10.000 190.26 755.86 3.9369	7.50731E+05 207.66 25.051 0.45129	1.15639E+05 27.493 161.73 1.0125	40.000 5.0044 0.30023 0.74590	192.02 12.717 3.9079
129 10.000 193.67 4377.3 4.0107	7.50731E+05 222.49 31.068 0.35618	1.15839E+05 66.161 69.106 0.77452	40.000 5.6452 0.27292 0.66383	211.73 8.3130 4.3866
130 10.000 211.71 1919.1 4.8932	7.50731E+05 247.48 153.72 1.0906	1.20039E+05 43.000 125.01 0.06536	40.000 12.399 1.5207 0.60190	244.31 11.181 5.0110
131 10.000 234.31 1990.8 3.1420	7.50731E+05 259.04 220.73 0.36505	1.20241E+05 44.700 143.59 0.04323	41.000 14.857 0.25209 0.56724	260.02 11.983 2.7647
132 10.000 191.62 632.91 4.3239	7.50731E+05 203.40 216.64 0.35099	1.20441E+05 25.170 372.70 1.4017	40.000 14.719 0.27023 1.7004	184.10 19.305 3.7527
133 10.000 180.13 5339.5 5.6032	7.50731E+05 200.50 23.363 0.55966	1.20641E+05 73.072 56.214 0.55650	40.000 4.8335 0.32724 0.52107	200.69 7.4976 5.1060

1975 EOCR TESTS 4-13
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
134 10.000 184.03 11.096 5.0509	7.50731E+05 217.00 0.32672 1.30607E-02	1.20702E+05 3.3310 53.601 0.30115	0.0000 0.57159 7.36570E-02 0.55776	107.39 7.3267 4.9223
135 11.000 02.950 144.96 2.7026	7.50012E+05 07.277 01.181 0.75036	1.11125E+05 12.040 136.57 0.60663	60.000 9.0101 2.6071 0.29326	01.529 11.606 2.5770
136 11.000 129.45 131.73 1.3016	7.50012E+05 112.90 344.75 0.32303	1.11325E+05 11.477 1147.4 0.39600	60.000 10.567 1.6261 0.02102	130.21 33.073 1.4120
137 11.000 102.69 67.306 0.55370	7.50012E+05 160.24 647.49 0.36276	1.11526E+05 0.2009 1369.5 0.30745	60.000 25.446 0.65704 0.40499	90.907 37.007 0.39730
138 11.000 15.220 0466.1 0.00449	7.50012E+05 201.25 3323.6 0.51119	1.11726E+05 92.012 173.55 0.76441	60.000 57.650 0.31774 0.36539	42.001 13.174 0.42671
139 11.000 32.260 1473.5 0.90007	7.50012E+05 17.533 493.11 0.51062	1.11926E+05 30.307 796.17 0.60327	60.000 22.206 1.3476 0.67490	11.066 20.217 1.5115
140 11.000 25.045 3099.1 1.1206	7.50012E+05 45.306 1923.4 0.41493	1.12126E+05 62.443 044.92 0.57040	60.000 43.057 0.69953 0.57329	5.4540 29.067 0.77951

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
141	11.000 72.064 173.34 2.0021	7.50812E+05 70.349 180.83 0.81058	1.12326E+05 13.166 73.454 0.65768	60.000 13.447 2.2269 0.52131	73.456 8.5705 2.4382
142	11.000 48.516 1001.5 1.6010	7.50812E+05 41.251 665.36 0.76434	1.12526E+05 31.646 416.18 0.67291	60.000 25.795 1.3764 0.53150	45.266 20.401 1.4032
143	11.000 359.06 2265.9 1.6116	7.50812E+05 28.997 1344.6 0.71833	1.12726E+05 47.801 709.81 0.65862	60.000 36.669 0.89477 0.71630	341.80 26.642 1.1144
144	11.000 108.01 348.14 2.1389	7.50812E+05 108.13 211.50 0.54621	1.12927E+05 18.658 336.65 0.01573	60.000 14.543 2.4666 0.45960	103.53 18.348 2.4223
145	11.000 137.29 633.02 0.92308	7.50812E+05 112.84 671.89 0.53539	1.13127E+05 28.062 203.90 0.52461	60.000 25.921 1.2581 0.46708	146.24 14.279 1.2395
146	11.000 227.77 494.70 0.59921	7.50812E+05 175.45 366.53 0.41740	1.13327E+05 22.152 1043.0 0.32536	60.000 19.145 1.0576 0.30249	228.02 32.296 0.96286
147	11.000 293.23 1956.7 0.83168	7.50812E+05 230.42 7136.3 0.59993E-02	1.13502E+05 44.235 171.16 0.25335	46.000 84.477 0.32695 0.19232	180.94 13.003 0.23378
148	12.000 30.020 62.673 2.1739	7.50813E+05 49.350 52.615 0.17390	7.4401. 7.9166 22.165 0.16093	66.000 7.2536 1.2380 0.17769	26.956 4.7080 1.2093

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
149	12.000 29.643 41.506 2.1784	7.50813E+05 44.127 78.568 0.18356	7.4601. 6.4425 20.641 0.15928	69.000 8.8638 1.4180 0.17398	27.235 4.5432 1.3321
150	12.000 29.774 120.22 2.7643	7.50813E+05 44.752 183.85 0.24265	7.4801. 10.964 34.857 0.26377	70.000 10.152 1.6538 0.28452	22.188 5.9048 1.6503
151	12.000 40.891 25.022 3.0443	7.50813E+05 45.024 33.071 0.17970	7.5081. 5.0822 16.192 0.20708	70.000 5.7587 2.8791 0.21385	41.156 4.8240 2.0715
152	12.000 42.632 10.892 3.0945	7.50813E+05 42.941 14.828 0.18615	7.5202. 4.3465 11.667 0.16719	69.000 3.8587 2.5859 0.18490	38.538 3.4157 2.5050
153	12.000 51.054 68.237 3.1661	7.50813E+05 46.051 37.389 0.30134	7.5403. 8.2685 34.541 0.21805	69.000 6.1147 2.0928 0.32134	45.201 5.8772 2.2229
154	12.000 53.296 53.424 3.2134	7.50813E+05 48.202 38.968 0.23987	7.5604. 7.3092 63.755 0.20259	69.000 6.2425 1.8398 0.45425	56.267 7.9847 1.8671
155	12.000 50.429 52.991 3.4821	7.50813E+05 49.623 83.910 0.21215	7.5804. 7.2795 28.296 0.31731	60.000 9.1602 1.8600 0.32092	53.376 5.3194 1.9375

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
156	12.000 52.441 104.02 3.5221	7.50813E+05 44.362 89.842 0.35344	80004. 10.199 65.655 0.35638	60.000 9.4785 1.9241 0.49970	51.429 8.1028 2.2138
157	12.000 44.865 71.182 3.5007	7.50813E+05 44.388 64.464 0.31266	80205. 8.4369 53.745 0.33421	70.000 8.0290 2.2843 0.44696	41.986 7.3311 2.3860
158	12.000 44.100 62.674 4.2198	7.50813E+05 41.009 53.010 0.39529	80405. 7.9167 30.987 0.39474	69.000 7.2808 2.9460 0.43615	39.763 5.5666 3.1167
159	12.000 38.811 72.060 4.1424	7.50813E+05 34.703 67.881 0.40670	80605. 8.4888 52.193 0.42319	70.000 8.2398 2.5428 0.53679	36.568 7.2245 2.9868
160	12.000 35.196 73.627 4.5818	7.50813E+05 36.417 68.869 0.41460	80805. 8.5886 46.241 0.43481	70.000 8.2987 2.9572 0.59665	34.648 6.8001 3.1490
161	12.000 41.011 53.855 4.9197	7.50813E+05 37.140 26.878 0.50811	81005. 7.3386 19.976 0.36428	71.000 5.1067 3.6534 0.35705	39.655 4.4695 4.0373
162	12.000 48.070 90.319 5.2465	7.50813E+05 36.370 66.302 0.61864	81200. 9.5836 25.882 0.58232	68.000 8.1426 3.6322 0.48696	41.864 5.0874 3.9175

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
163	13.000 59.729 209.02 3.5279	7.50814E+05 55.645 115.93 0.82831	1.11900E+05 14.458 139.05 0.69604	70.000 10.767 3.4204 0.57063	53.068 11.792 3.6855
164	13.000 49.959 310.38 2.4478	7.50814E+05 53.621 211.09 0.63215	1.12101E+05 17.615 107.98 0.65016	70.000 14.529 2.2973 0.51236	40.845 10.391 2.3409
165	13.000 20.760 893.01 1.6659	7.50814E+05 23.482 1138.5 0.29265	1.12302E+05 29.883 268.83 0.50835	69.000 33.623 1.1627 0.40913	14.702 16.150 1.2921
166	13.000 71.903 1323.8 2.2897	7.50814E+05 69.950 1144.9 0.99179	1.12503E+05 36.384 798.11 0.81577	69.000 33.836 1.5715 0.77353	66.496 28.109 1.8927
167	13.000 100.14 983.43 1.8943	7.50814E+05 83.196 668.47 0.44787	1.12704E+05 31.368 612.48 0.43588	69.000 25.855 1.3718 0.46423	95.227 24.748 1.7694
168	13.000 61.269 311.04 1.9700	7.50814E+05 51.786 415.19 0.46113	1.12905E+05 17.659 588.22 0.56337	70.000 20.376 1.6572 0.89020	55.785 24.253 1.6952
169	13.000 97.218 130.13 2.6465	7.50814E+05 85.729 102.87 0.40364	1.13105E+05 11.487 71.436 0.49469	70.000 10.142 2.3296 0.35572	96.211 8.4520 2.4253

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
170	13.000 60.460 626.91 2.5330	7.50014E+05 59.051 596.45 0.51900	1.13305E+05 25.038 235.98 0.56284	69.000 24.422 1.8695 0.48369	61.769 15.362 2.0958
171	13.000 45.927 286.55 2.3745	7.50014E+05 35.398 298.39 0.62430	1.13506E+05 16.928 131.76 0.63278	68.000 17.041 2.1318 0.53470	45.904 11.478 2.1657
172	13.000 34.149 2371.8 1.6460	7.50014E+05 6.0459 2077.5 0.83388	1.13706E+05 48.693 1009.2 0.71593	57.000 45.579 0.97931 0.55340	45.172 31.768 1.1109
173	13.000 9.4787 2892.3 2.1061	7.50014E+05 1.7236 1762.9 0.76713	1.13907E+05 53.780 1336.2 0.77629	70.000 41.987 1.0746 0.76531	5.4011 36.555 1.5267
174	13.000 16.949 222.08 3.1927	7.50014E+05 11.811 91.557 0.47526	1.14108E+05 14.929 29.468 0.56635	70.000 9.5685 3.0496 0.48393	15.756 5.4284 3.1274
175	13.000 25.287 156.02 2.2382	7.50014E+05 16.698 220.23 0.63290	1.14308E+05 12.491 140.57 0.67122	70.000 14.840 2.1017 0.37952	25.599 11.856 2.0584
176	13.000 356.81 916.38 1.8657	7.50014E+05 1.1518 354.67 0.51547	1.14508E+05 30.272 339.57 0.39573	69.000 18.833 1.3828 0.60091	350.85 18.427 1.6109

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
184	13.000 343.68 320.92 1.3615	7.50014E+05 349.34 281.23 0.48064	1.20112E+05 17.914 612.03 0.42820	69.000 16.770 1.4290 0.31291	329.53 24.739 1.5339
185	13.000 336.41 1817.1 1.4239	7.50014E+05 340.75 1171.1 0.53233	1.20312E+05 42.628 768.17 0.43476	69.000 34.221 0.92484 0.42831	331.24 27.716 1.0886
186	13.000 357.20 323.98 2.3168	7.50014E+05 357.27 249.48 0.84777	1.20512E+05 17.999 275.86 0.72048	70.000 15.792 2.1913 0.63913	352.82 16.689 2.3337
187	13.000 6.3143 187.95 1.9633	7.50014E+05 0.71766 120.36 0.63033	1.20712E+05 13.710 84.927 0.62789	71.000 10.971 1.9892 0.38799	3.9469 9.2156 2.1653
188	13.000 7.2447 1011.7 1.9244	7.50014E+05 356.61 970.85 0.69143	1.20912E+05 31.007 518.28 0.69582	70.000 31.150 1.5441 0.41826	9.4585 22.766 1.6618
189	13.000 340.42 250.87 1.7304	7.50014E+05 342.05 181.25 0.71946	1.21113E+05 15.839 385.67 0.59224	71.000 13.463 1.7729 0.44108	332.42 19.639 1.7145
190	13.000 334.08 1396.2 1.9858	7.50014E+05 334.81 739.84 0.95055	1.21314E+05 37.366 127.31 0.72428	69.000 27.185 1.2264 0.37352	324.05 11.283 1.2260

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
177	13.000 337.22 1269.9 1.4739	7.50014E+05 352.87 1048.5 0.45137	1.14708E+05 35.636 471.61 0.52015	70.000 32.380 0.81700 0.56433	327.53 21.717 0.95642
178	13.000 350.20 771.21 1.9879	7.50014E+05 354.53 940.18 0.36844	1.14908E+05 27.771 940.65 0.56593	68.000 30.662 1.5367 0.59134	345.39 30.670 1.6206
179	13.000 46.728 336.81 2.7211	7.50014E+05 47.670 346.19 0.83194	1.15109E+05 18.353 286.34 0.85335	69.000 18.686 2.5882 0.83192	44.355 16.922 2.6137
180	13.000 41.433 830.36 1.8266	7.50014E+05 7.2446 726.81 0.80279	1.15310E+05 28.816 1158.7 0.72021	70.000 26.944 1.7957 0.58925	39.184 33.922 1.6972
181	13.000 39.460 19763. 0.81804	7.50014E+05 4.0729 23354. 0.62039	1.15511E+05 140.58 7588.9 0.80154	71.000 152.82 0.47230 0.68205	338.81 87.115 0.33191
182	13.000 50.816 528.86 1.9968	7.50014E+05 24.188 559.91 0.60568	1.15712E+05 22.980 200.88 0.67401	71.000 23.662 1.4697 0.69557	49.918 14.425 1.6969
183	13.000 339.88 3700.8 1.3618	7.50014E+05 338.19 1478.4 0.72139	1.15912E+05 60.834 409.89 0.61416	69.000 38.458 0.73948 0.42148	330.82 20.226 1.0092

1975 EOCR TESTS 4-13

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
191	13.000 4.2414 3856.8 1.2608	7.50014E+05 15.966 2270.7 0.76975	1.21514E+05 62.103 739.14 0.78386	68.000 47.652 0.76123 0.45356	336.53 27.187 0.89667
192	13.000 40.740 176.37 1.8957	7.50014E+05 14.429 192.92 0.48675	1.21700E+05 13.281 280.86 0.52711	62.000 13.890 2.1711 0.48216	37.892 16.759 2.1873

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
1	14.000 46.419 85.656 10.486	7.60506E+05 48.004 51.857 1.1210	72050. 9.2550 25.268 1.0700	44.000 7.2010 6.9130 0.93200	46.066 5.0270 0.5230
2	14.000 45.857 98.500 10.232	7.60506E+05 46.666 78.684 1.1350	72259. 9.9250 52.984 1.2450	44.000 8.8660 6.5320 1.2000	42.922 7.2790 0.8320
3	14.000 44.805 61.219 11.699	7.60506E+05 47.524 33.741 1.1970	72459. 7.8240 32.304 1.0290	44.000 5.8090 8.6310 1.1670	42.312 5.6840 10.139
4	14.000 46.285 58.236 10.033	7.60506E+05 45.392 62.342 0.91000	72701. 7.6310 42.466 1.1100	45.000 7.8960 6.8030 1.1370	43.001 6.5170 0.1930
5	14.000 42.735 57.464 9.5300	7.60506E+05 46.159 36.095 0.87400	72901. 7.5000 23.472 0.86100	44.000 6.0000 6.6750 0.80000	46.072 4.8450 0.1820
6	14.000 45.405 75.193 10.634	7.60506E+05 44.287 34.330 1.0510	73101. 8.6710 28.614 0.89500	44.000 5.8590 7.1530 0.98900	49.156 5.3490 8.7520
7	14.000 44.087 44.097 9.9640	7.60506E+05 44.100 35.771 0.80900	73303. 6.6410 29.190 0.82900	44.000 5.9810 6.9700 0.93700	44.950 5.4030 0.0060

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
15	14.000 47.146 64.250 7.6510	7.60506E+05 48.071 54.403 0.73300	74910. 8.0160 27.304 0.81900	45.000 7.3760 5.2660 0.72100	47.415 5.2250 6.2900
16	14.000 49.695 85.690 10.020	7.60506E+05 49.671 60.633 1.1290	75111. 9.2570 32.691 1.1110	45.000 7.7070 7.0100 1.0630	46.932 5.7180 8.2600
17	14.000 51.004 86.364 9.6550	7.60506E+05 49.861 56.390 1.0640	75312. 9.2930 27.189 1.0260	45.000 7.5090 6.7220 0.90900	51.684 5.2140 0.2710
18	14.000 47.167 59.607 9.6000	7.60506E+05 48.935 51.301 0.93100	75513. 7.7210 31.766 0.99600	45.000 7.1620 6.7930 0.89100	49.740 5.6360 7.9410
19	14.000 51.296 79.050 9.4430	7.60506E+05 52.649 49.507 1.0010	75714. 8.9360 35.567 0.95300	45.000 7.0360 6.4760 0.97300	51.572 5.9640 7.7620
20	14.000 47.001 76.172 8.9730	7.60506E+05 50.034 69.622 0.96700	75915. 8.7200 46.205 0.97700	45.000 8.3440 6.0340 1.0350	50.640 6.7970 6.0630
21	14.000 49.040 76.972 9.3170	7.60506E+05 48.301 38.001 0.99700	80115. 8.7730 23.401 0.85500	45.000 6.2350 6.1360 0.82000	49.900 4.8370 7.3960

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
8	14.000 44.251 75.602 9.8960	7.60506E+05 46.511 65.379 0.93200	73503. 8.6950 50.574 1.0970	44.000 8.0860 6.1510 1.2390	45.607 7.1120 7.7610
9	14.000 46.542 71.060 9.9710	7.60506E+05 46.397 48.150 1.0150	73704. 8.4300 39.306 0.98300	44.000 6.9400 6.0690 1.1040	45.005 6.2690 7.9020
10	14.000 45.757 60.729 9.0510	7.60506E+05 45.133 44.101 0.80000	73906. 7.7930 24.004 0.87600	45.000 6.6410 6.4940 0.79000	45.635 4.9800 7.5650
11	14.000 45.313 90.165 9.0750	7.60506E+05 47.566 50.662 0.90600	74106. 9.9000 33.536 0.93200	44.000 7.6590 5.7160 0.92400	45.567 5.7910 6.9910
12	14.000 45.700 49.200 9.5760	7.60506E+05 44.585 43.400 0.80600	74300. 7.0210 26.701 0.87500	45.000 6.5940 6.2820 0.86400	48.434 5.1750 7.5460
13	14.000 45.216 69.621 9.4440	7.60506E+05 45.562 66.637 0.94000	74500. 8.3440 52.521 1.0030	44.000 8.1630 6.4570 1.2000	44.709 7.2470 7.6020
14	14.000 45.993 79.003 9.0200	7.60506E+05 46.213 36.290 1.0300	74700. 8.9330 41.117 0.82000	44.000 6.0250 6.6500 1.0110	45.364 6.4120 7.7960

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
22	14.000 47.019 70.240 9.3260	7.60506E+05 49.769 39.013 0.93000	80316. 8.3010 19.075 0.81500	45.000 6.2460 6.4120 0.73400	45.042 4.3600 7.4740
23	14.000 45.652 56.021 8.9150	7.60506E+05 49.254 33.042 0.81000	80517. 7.5300 19.142 0.76600	45.000 5.8170 6.2990 0.67100	46.307 4.3750 7.5630
24	14.000 46.334 52.190 8.2360	7.60506E+05 47.793 44.034 0.74100	80719. 7.2250 27.007 0.81300	45.000 6.6360 5.8990 0.76400	47.010 5.2730 6.9030
25	14.000 44.913 57.895 9.7750	7.60506E+05 47.032 26.974 0.93200	80920. 7.6090 24.560 0.76300	45.000 5.1940 7.0220 0.84100	45.209 4.9570 8.4210
26	14.000 41.114 91.564 8.7710	7.60506E+05 45.628 03.668 0.99500	81121. 9.5690 57.255 1.1610	45.000 5.1470 9.9400 1.1600	42.115 7.5670 7.0050
27	14.000 48.124 69.997 7.9000	7.60506E+05 49.355 53.115 0.81900	81321. 8.3660 27.095 0.85900	45.000 7.2800 5.4940 0.74300	47.700 5.2020 6.6750
28	14.000 48.761 49.304 7.9490	7.60506E+05 50.760 51.013 0.67700	81410. 7.0270 50.209 0.84100	21.000 7.1900 5.4820 1.1220	46.519 7.6290 6.6000

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
29 15.000	7.60512E+05	71957.	45.000	18.609
28.389	48.804	30.957	27.950	14.828
958.35	781.16	196.79	0.50900	1.0178
2.9260	0.21400	0.39300	0.72800	
30 15.000	7.60512E+05	72158.	45.000	38.260
37.450	36.242	20.423	17.472	8.0750
417.08	305.27	78.773	1.9850	4.1110
6.2380	0.76400	1.3720	1.0000	
31 15.000	7.60512E+05	72359.	45.000	33.085
32.930	33.089	9.6878	6.7360	5.2370
93.845	45.379	27.431	2.0230	4.7160
6.4920	0.33700	0.55000	0.58100	
32 15.000	7.60512E+05	72601.	45.000	32.426
36.424	38.667	10.022	8.6670	8.0620
100.44	75.109	64.995	1.7760	3.8960
5.0950	0.31400	0.56800	0.69000	
33 15.000	7.60512E+05	72802.	45.000	37.616
38.075	38.322	8.6740	8.2990	7.2230
75.237	68.877	52.169	1.6610	3.6480
5.0610	0.22900	0.53200	0.61900	
34 15.000	7.60512E+05	73002.	45.000	36.709
38.149	37.513	13.134	10.422	7.0280
172.51	108.62	49.394	1.9210	4.1760
5.0910	0.39400	0.68100	0.61800	
35 15.000	7.60512E+05	73203.	45.000	35.018
38.176	37.457	11.018	9.9090	9.7340
121.40	98.182	94.747	2.0220	4.3580
4.6840	0.43100	0.81900	0.81900	

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
43 15.000	7.60512E+05	74810.	45.000	32.452
35.761	32.612	9.1850	7.3070	5.6540
84.370	53.396	31.972	2.1550	4.3290
4.7250	0.42600	0.59100	0.51300	
44 15.000	7.60512E+05	75010.	45.000	30.639
27.667	29.332	13.141	10.329	6.6900
172.68	106.68	44.754	1.8290	4.1690
4.9368	0.38900	0.70100	0.69000	
45 15.000	7.60512E+05	75212.	45.000	22.066
26.226	24.410	9.1420	7.2630	5.7220
83.567	53.045	32.738	2.4170	4.9200
5.7750	0.36500	0.60200	0.62400	
46 15.000	7.60512E+05	75414.	45.000	24.901
26.612	25.811	11.046	9.7790	7.5370
122.81	95.629	56.885	2.1240	4.4350
5.2150	0.36000	0.64200	0.67700	
47 15.000	7.60512E+05	75615.	45.000	19.072
19.413	18.063	8.6280	5.7180	3.7300
74.437	32.692	13.913	2.8160	5.4270
5.9570	0.45500	0.55200	0.62600	
48 15.000	7.60512E+05	75816.	45.000	13.632
13.049	9.4490	10.386	8.3810	5.8950
107.88	70.236	25.961	2.2010	4.7210
5.5410	0.58100	0.62500	0.47200	
49 15.000	7.60512E+05	80017.	45.000	5.7830
10.152	9.9190	11.846	7.8630	7.5240
140.34	61.820	56.615	1.9380	4.0280
4.6160	0.29700	0.76900	0.64700	

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
36 15.000	7.60512E+05	73404.	45.000	49.377
38.771	30.106	13.309	12.785	8.8880
177.14	163.47	78.853	1.8560	3.9510
4.9530	0.43300	0.98400	0.76500	
37 15.000	7.60512E+05	73604.	45.000	28.864
31.343	39.423	9.5150	5.8760	6.4810
98.532	34.523	42.002	2.0040	4.1780
4.4410	0.27400	0.58800	0.52700	
38 15.000	7.60512E+05	73806.	45.000	27.294
31.872	34.177	8.7750	6.3050	4.8870
77.004	39.755	16.707	2.1780	4.6730
5.5320	0.30100	0.45000	0.40800	
39 15.000	7.60512E+05	74006.	45.000	29.985
34.067	35.902	6.9350	5.3260	6.6730
48.898	28.364	44.531	2.3910	4.8430
5.0850	0.31400	0.42400	0.67800	
40 15.000	7.60512E+05	74207.	45.000	32.121
31.582	34.533	8.2890	5.9660	5.8630
68.701	35.590	34.369	2.3420	4.8170
5.1040	0.31400	0.49000	0.59600	
41 15.000	7.60512E+05	74408.	45.000	32.511
35.906	36.933	8.6120	7.2040	5.2250
74.159	51.891	27.385	2.4760	4.8230
5.5440	0.37200	0.54000	0.54100	
42 15.000	7.60512E+05	74610.	45.000	30.429
38.165	30.181	10.869	6.5430	5.8420
181.36	42.884	25.418	1.9870	4.4420
5.0570	0.37100	0.51200	0.56800	

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
50 15.000	7.60512E+05	80218.	45.000	9.7980
9.8240	2.9370	11.096	8.7800	5.5420
123.13	77.087	38.709	2.2450	4.9160
5.4380	0.48500	0.56500	0.45400	
51 15.000	7.60512E+05	80420.	45.000	8.12500
1.7420	2.1770	11.090	7.9410	6.0810
123.00	63.052	36.975	2.2860	4.6700
5.5240	0.64200	0.94500	0.72800	
52 15.000	7.60512E+05	80621.	45.000	10.919
9.5190	358.27	9.4480	6.6590	7.4470
89.118	44.347	55.457	2.2040	4.8700
5.2750	0.46600	0.63600	0.84500	
53 15.000	7.60512E+05	80821.	45.000	353.94
352.20	346.35	17.383	11.835	9.9380
382.18	148.06	98.760	1.5890	3.5460
3.4980	0.30300	0.67700	0.63100	
54 15.000	7.60512E+05	81021.	45.000	329.02
332.94	333.31	10.646	8.7800	5.9310
113.34	77.229	35.172	1.4600	3.1410
2.5980	0.22300	0.45300	0.25800	
55 15.000	7.60512E+05	81221.	45.000	343.02
341.86	345.22	13.003	11.789	11.677
169.87	158.97	136.34	1.4300	3.0470
3.8480	0.32000	0.59500	0.63000	
56 15.000	7.60512E+05	81421.	45.000	343.84
346.47	358.12	9.6630	6.7550	5.9130
93.380	45.631	34.962	1.6620	3.7830
4.0950	0.31800	0.51500	0.50800	

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
57	15.000 352.50 79.224 4.2730	7.60512E+05 354.25 49.385 0.41200	81621. 8.9010 44.451 0.47700	45.000 7.0270 1.9120 0.49300	350.40 6.6670 4.1650
58	15.000 357.24 69.643 4.4370	7.60512E+05 1.3690 41.072 0.26400	81802. 8.3450 36.640 0.30100	38.000 6.4090 1.9510 0.29200	354.30 6.0700 4.1070
59	16.000 326.00 102.33 1.9500	7.60518E+05 341.01 107.17 0.32700	71750. 10.116 123.49 0.30100	46.000 10.352 1.8630 0.29400	320.84 11.113 1.9760
60	16.000 320.50 70.255 2.6140	7.60518E+05 340.75 81.400 0.30200	71959. 8.3020 60.291 0.36700	47.000 9.0230 2.3170 0.66200	326.10 9.3960 2.4600
61	16.000 350.02 82.120 3.0140	7.60518E+05 356.54 84.384 0.43400	72159. 9.0620 66.119 0.39700	47.000 9.1060 2.3790 0.33600	352.01 8.1310 2.5320
62	16.000 11.034 200.97 2.0700	7.60518E+05 20.691 175.23 0.26000	72400. 14.176 144.64 0.31100	47.000 13.230 2.3410 0.43300	5.2460 12.027 2.5090
63	16.000 35.724 157.91 3.1460	7.60518E+05 44.814 73.506 0.46900	72601. 12.566 36.753 0.32500	47.000 8.5700 2.3170 0.33300	39.079 6.0620 2.4400

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
71	16.000 34.302 279.45 3.4650	7.60518E+05 39.310 100.40 0.90000	74206. 16.717 129.23 0.81300	47.000 13.431 2.9640 0.72700	33.995 11.360 3.1210
72	16.000 30.076 114.67 3.2300	7.60518E+05 33.650 73.631 0.53000	74406. 10.709 63.300 0.43900	47.000 8.5810 2.9500 0.42100	40.451 7.9620 3.0170
73	16.000 35.033 100.37 3.0720	7.60518E+05 30.231 73.151 0.54000	74607. 10.410 54.090 0.44000	47.000 8.5530 3.1250 0.45300	36.206 7.4090 3.3620
74	16.000 34.014 75.907 4.3030	7.60518E+05 33.972 55.676 0.60000	74907. 8.7120 32.220 0.50900	47.000 7.4620 3.5600 0.45100	33.934 5.6760 4.0070
75	16.000 20.178 73.426 4.4170	7.60518E+05 33.350 37.125 0.51000	75007. 8.5690 23.100 0.39500	47.000 6.0930 3.7070 0.40000	28.656 4.8150 4.1330
76	16.000 32.636 95.820 4.0000	7.60518E+05 35.812 84.002 0.59600	75207. 9.7090 47.509 0.59700	47.000 9.2090 3.3390 0.50400	31.529 6.0930 3.6640
77	16.000 43.959 98.060 4.2030	7.60518E+05 42.000 70.067 0.64100	75400. 9.9430 40.101 0.55700	47.000 8.3710 3.6670 0.48900	45.619 6.3330 3.9040

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
64	16.000 32.763 90.062 3.0000	7.60518E+05 44.042 55.317 0.41400	72001. 9.9030 53.923 0.36700	47.000 7.4300 2.6090 0.40000	30.471 7.3430 2.7460
65	16.000 25.731 206.47 2.3760	7.60518E+05 32.014 174.46 0.49400	73002. 16.925 166.10 0.30000	47.000 13.200 1.9050 0.42400	21.055 12.000 2.1120
66	16.000 11.310 144.23 2.2270	7.60518E+05 19.715 117.22 0.23700	73202. 12.010 330.79 0.20200	47.000 10.827 1.0970 0.30600	11.001 10.100 1.9230
67	16.000 3.9750 353.26 2.4010	7.60518E+05 10.562 363.47 0.32400	73403. 10.795 337.90 0.17500	47.000 19.065 1.7000 0.30300	4.4140 10.304 1.0200
68	16.000 27.057 303.93 2.6270	7.60518E+05 27.166 271.03 0.59000	73603. 19.594 201.35 0.57200	47.000 16.463 1.9090 0.30300	23.377 14.190 2.3300
69	16.000 20.003 79.426 2.9000	7.60518E+05 26.302 56.609 0.43300	73803. 0.9120 106.10 0.32700	47.000 7.5240 2.6970 0.40000	35.340 10.301 2.6400
70	16.000 37.273 233.10 2.7060	7.60518E+05 42.420 107.50 0.56200	74005. 15.270 100.64 0.50100	46.000 13.700 2.2190 0.57100	36.146 11.059 2.3720

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
78	16.000 30.537 134.00 4.3300	7.60518E+05 33.919 70.214 0.60400	75609. 11.579 22.934 0.57200	47.000 0.9440 3.6000 0.35700	26.647 4.7090 3.9700
79	16.000 63.012 4.3620	7.60518E+05 29.720 29.002 0.47400	75809. 7.9000 23.902 0.39400	47.000 5.4660 3.9260 0.37000	29.390 4.0970 4.1320
80	16.000 20.577 62.396 5.2640	7.60518E+05 32.226 23.619 0.52200	00010. 7.0990 15.129 0.41000	47.000 4.0600 4.1040 0.32400	20.461 3.0900 4.7220
81	16.000 23.161 67.525 4.9900	7.60518E+05 30.651 40.916 0.50000	00210. 0.2170 19.105 0.46200	47.000 6.3970 4.3770 0.36400	19.730 4.3000 4.0310
82	16.000 22.400 07.764 4.6000	7.60518E+05 20.021 03.799 0.69700	00410. 9.3600 30.523 0.62400	47.000 9.1540 3.5660 0.60500	22.023 6.2070 4.0690
83	16.000 22.406 97.097 4.5720	7.60518E+05 23.061 70.770 0.50700	00610. 9.0940 54.792 0.49200	47.000 0.0760 3.9910 0.37900	22.377 7.4020 4.2670
84	16.000 12.047 00.646 4.6620	7.60518E+05 10.620 22.300 0.35400	00011. 6.3750 11.464 0.20600	47.000 4.7310 4.0000 0.29300	11.764 3.3060 4.3060

EOCR TESTS 14-24 (1976)
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
85 16.000 24.512 66.501 4.3430	7.60510E+05 28.616 47.039 0.36300	01011. 8.1550 26.954 0.30500	47.000 6.8500 3.6900 0.33600	24.351 5.1920 4.0030
86 16.000 34.514 62.566 4.4980	7.60510E+05 32.742 57.390 0.50100	01211. 7.9100 43.371 0.52900	47.000 7.5760 4.0120 0.50400	35.875 6.5860 4.3100
87 16.000 33.731 2.2730 4.9330	7.60510E+05 36.663 6.0260 0.23600	01216. 1.5000 3.2560 0.10900	2.0000 2.4550 4.5750 0.12500	26.400 1.0040 4.4500
88 17.000 12.200 10.517 4.4120	7.60521E+05 36.360 8.0640 0.10000E-02	55259. 3.2430 2.1200 7.20000E-02	47.000 2.8400 2.0570 0.12900	4.5600 1.4560 2.5900
89 17.000 8.0990 4.2360 4.5210	7.60521E+05 34.484 12.101 0.10100	55500. 2.0500 3.5020 6.89999E-02	47.000 3.4790 2.2670 0.11700	355.31 1.0710 2.6560
90 17.000 13.749 17.496 4.4510	7.60521E+05 38.411 12.037 0.19900	55701. 4.1030 5.7630 0.19100	47.000 3.4690 1.9620 0.21600	1.0990 2.4010 2.4650
91 17.000 30.379 159.57 3.2170	7.60521E+05 53.250 68.070 0.35000	55901. 12.632 123.11 0.37200	46.000 8.2510 0.90900 0.47200	22.969 11.096 1.6140

EOCR TESTS 14-24 (1976)
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
99 17.000 329.43 11.917 2.2590	7.60521E+05 12.071 31.704 9.19999E-02	61507. 3.4520 7.5530 0.16000	46.000 5.6310 1.5370 0.27100	314.25 2.7400 1.7250
100 17.000 329.01 3.5640 2.4950	7.60521E+05 8.0660 55.127 5.30000E-02	61700. 1.0000 2.2020 0.20100	47.000 7.4250 1.5600 0.13000	313.13 1.5110 1.6020
101 17.000 329.73 41.141 2.0740	7.60521E+05 12.394 141.12 0.14900	61909. 6.4140 8.0600 0.27400	44.000 11.079 1.3770 0.13000	316.63 2.0390 1.4110
102 17.000 342.74 6.9760 2.0640	7.60521E+05 13.007 8.8340 5.10000E-02	62110. 2.6410 13.914 0.15600	45.000 2.9720 1.0420 0.00000E-02	321.94 3.7300 1.1060
103 17.000 346.59 55.142 1.9500	7.60521E+05 7.5590 12.756 0.60000E-02	62310. 7.4260 2.3060 0.19700	45.000 3.5720 0.62100 0.20000E-02	322.42 1.5100 1.1600
104 17.000 320.83 2143.8 1.3570	7.60521E+05 4.7410 244.27 0.13200	62511. 46.301 2.7140 0.22300	44.000 15.629 0.33000 0.33000	286.51 1.6470 0.52900
105 17.000 329.93 98.640 1.2110	7.60521E+05 6.4130 304.12 0.13600	62712. 9.9320 4.7690 0.21100	46.000 17.439 0.44300 0.30900	193.47 2.1040 0.43900

EOCR TESTS 14-24 (1976)
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
92 17.000 02.061 300.01 2.2090	7.60521E+05 73.213 700.05 0.20100	60102. 17.321 15.000 0.23000	47.000 26.609 1.0000 0.33700	107.59 3.9060 1.0620
93 17.000 93.190 114.01 2.2440	7.60521E+05 60.922 325.87 0.31300	60303. 10.670 19.900 0.21700	45.000 10.052 1.3050 0.22500	90.649 4.4610 1.1920
94 17.000 100.33 40.582 2.3020	7.60521E+05 83.921 69.907 0.30100	60503. 6.9700 223.34 0.43400	47.000 0.3660 2.2520 0.13000	111.03 14.945 2.6230
95 17.000 93.379 254.11 1.7510	7.60521E+05 67.320 161.49 0.35000	60704. 15.941 236.03 0.56900	46.000 12.700 0.90200 0.41700	111.53 15.363 1.5900
96 17.000 25.355 307.15 1.5110	7.60521E+05 20.252 114.74 1.00000E-02	60905. 17.526 47.941 0.15900	46.000 10.712 0.34800 0.14900	90.604 6.9240 0.76000
97 17.000 37.003 217.77 2.0290	7.60521E+05 47.262 20.753 0.10500	61105. 14.757 20.205 9.30000E-02	46.000 5.3620 0.75100 0.10700	51.917 5.3110 1.1330
98 17.000 351.24 1023.6 1.7470	7.60521E+05 33.959 297.66 0.10700	61306. 31.994 99.548 0.10600	46.000 17.253 0.03700 0.23700	339.62 9.9770 1.1050

EOCR TESTS 14-24 (1976)
120. SECOND WIND STATISTICS
VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
106 17.000 339.83 60.376 2.1410	7.60521E+05 6.0700 9.4900 0.14400	62912. 7.7700 5.4420 0.11700	46.000 3.0010 1.0600 0.24300	304.60 2.3330 1.0000
107 17.000 332.70 23.130 2.5320	7.60521E+05 5.9900 116.47 0.12200	63114. 4.0090 0.5790 0.22600	46.000 10.792 1.3290 6.20000E-02	311.34 2.9290 1.3000
108 17.000 326.34 04.296 2.2470	7.60521E+05 9.4510 30.469 0.13000	63313. 9.1010 12.299 0.16200	46.000 5.5200 1.2030 0.15000	292.01 3.5070 1.5160
109 17.000 314.01 7.6010 1.9390	7.60521E+05 357.51 11.030 7.70000E-02	63513. 2.7720 10.200 7.60000E-02	47.000 3.3220 1.0570 0.10100	277.70 3.2070 1.3010
110 17.000 321.16 26.756 2.3900	7.60521E+05 5.5270 43.466 0.13100	63715. 5.1730 31.064 0.20400	46.000 6.5930 1.1050 0.11100	207.24 5.5740 1.5950
111 17.000 347.20 412.11 2.7920	7.60521E+05 21.509 31.646 0.15600	63915. 20.300 7.9410 0.34700	46.000 5.6250 0.44000 7.79999E-02	314.09 2.8100 1.5550
112 17.000 349.32 27.230 2.9540	7.60521E+05 21.190 11.020 0.12500	64117. 5.2190 11.020 0.20300	47.000 3.3450 0.05000 0.16700	342.92 3.3200 2.1730

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
113	17.000 344.21 35.501 3.3400	7.60521E+05 13.377 15.393 9.00000E-02	64310. 5.9500 12.302 0.32600	47.000 3.9230 1.1370 0.15200	330.56 3.5070 2.1020
114	17.000 331.95 75.560 3.2600	7.60521E+05 9.0050 24.853 0.18900	64510. 8.6930 6.6760 0.13900	47.000 4.9850 1.2710 0.10100	320.10 2.5040 1.7970
115	17.000 339.53 74.297 2.9920	7.60521E+05 16.407 56.962 0.12000	64648. 8.6200 1.3240 0.10900	35.000 7.5470 0.07300 0.70000E-02	334.32 1.1510 1.4340
116	18.000 40.156 49.357 6.2470	7.60623E+05 30.340 44.990 0.42300	53700. 7.0250 42.738 0.54000	46.000 6.7070 3.6090 0.75500	54.071 6.5370 4.7310
117	18.000 42.074 04.702 6.0060	7.60623E+05 36.000 39.740 0.60700	53902. 9.2000 32.347 0.60400	47.000 6.3050 4.3060 0.63000	46.013 5.6070 5.3070
118	18.000 43.009 50.020 7.0100	7.60623E+05 38.453 45.459 0.56000	54102. 7.6170 30.000 0.60300	46.000 6.7420 4.1910 0.63200	42.173 5.4950 5.0190
119	18.000 49.546 76.629 5.7670	7.60623E+05 46.174 37.627 0.57500	54302. 8.7540 25.662 0.49200	46.000 6.1340 3.7930 0.50900	49.151 5.0660 4.5090

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
127	18.000 40.029 04.766 7.6120	7.60623E+05 39.853 49.751 0.62300	55910. 9.2070 20.709 0.62500	46.000 7.0530 4.1650 0.74600	51.297 5.3500 5.1940
128	18.000 42.390 02.065 0.1070	7.60623E+05 37.034 47.309 0.74400	60110. 9.0590 14.670 0.68000	47.000 6.0700 4.7560 0.56000	45.045 3.8300 5.5940
129	18.000 42.703 00.999 7.9540	7.60623E+05 36.072 30.657 0.58600	60311. 7.0000 13.440 0.63000	47.000 6.2170 4.0070 0.55600	45.776 3.6660 5.7500
130	18.000 38.739 66.032 7.3410	7.60623E+05 36.545 34.694 0.66200	60511. 0.1750 22.190 0.57300	47.000 5.0900 4.4410 0.60900	39.067 4.7110 5.2630
131	18.000 39.015 41.406 0.0550	7.60623E+05 33.173 34.342 0.59200	60711. 6.4410 11.619 0.65000	47.000 5.0600 5.2010 0.58000	40.205 3.4090 6.2240
132	18.000 42.350 02.457 7.1230	7.60623E+05 37.675 33.953 0.60100	60912. 9.0010 15.622 0.53900	47.000 5.0270 4.2470 0.51000	42.916 3.9520 5.2540
133	18.000 44.490 59.106 6.6130	7.60623E+05 36.209 43.620 0.52500	61114. 7.6000 31.047 0.56000	47.000 6.6050 3.9270 0.60600	46.156 5.6400 4.9110

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
120	18.000 50.321 59.623 5.0070	7.60623E+05 46.655 27.035 0.41100	54503. 7.7220 16.569 0.34500	46.000 5.2000 3.1410 0.41200	49.360 4.0710 3.9930
121	18.000 50.449 01.756 6.2650	7.60623E+05 42.994 34.344 0.50700	54705. 9.0420 21.631 0.47400	46.000 5.0600 3.6010 0.52300	53.701 4.6510 4.5100
122	18.000 52.275 55.442 5.7530	7.60623E+05 47.369 33.011 0.39500	54906. 7.4460 30.600 0.39200	46.000 5.7460 3.0560 0.56700	51.557 5.5320 3.0580
123	18.000 50.647 49.251 5.6560	7.60623E+05 44.195 31.709 0.30700	55107. 7.0100 19.081 0.37700	46.000 5.6300 3.1330 0.44400	52.103 4.4590 4.0010
124	18.000 49.633 64.541 5.7520	7.60623E+05 45.367 32.730 0.40000	55300. 0.0340 14.402 0.30000	46.000 5.7220 3.1300 0.30100	51.411 3.0050 3.9360
125	18.000 45.042 41.502 5.7300	7.60623E+05 44.346 20.591 0.34900	55500. 6.4400 17.721 0.32400	46.000 4.5300 3.1640 0.42300	40.909 4.2100 4.0050
126	18.000 47.691 57.901 6.2200	7.60623E+05 46.029 35.044 0.43500	55709. 7.6150 17.905 0.41200	46.000 5.9070 3.3720 0.45700	47.522 4.2310 4.0000

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
134	18.000 39.411 60.603 7.6490	7.60623E+05 35.144 34.635 0.64500	61315. 0.2000 11.206 0.56100	47.000 5.0050 4.4170 0.47500	43.000 3.3590 5.4460
135	18.000 35.746 00.271 0.3700	7.60623E+05 29.045 00.015 0.74600	61516. 0.9590 30.744 0.09600	47.000 7.7470 4.0570 1.0510	36.156 5.5450 5.9120
136	18.000 20.261 96.169 7.2190	7.60623E+05 26.197 60.320 0.69400	61716. 9.0070 10.002 0.71400	47.000 0.2660 4.7360 0.61000	31.311 4.3570 5.5070
137	18.000 24.619 54.035 7.5320	7.60623E+05 20.313 42.937 0.79100	61917. 7.4050 33.526 0.94700	47.000 6.5530 4.6040 1.1320	24.730 5.7900 5.5500
138	18.000 16.955 119.70 5.0750	7.60623E+05 16.525 70.353 1.0200	62110. 10.941 39.392 1.2040	47.000 0.3000 4.2000 1.2700	17.647 6.2760 5.0130
139	18.000 23.701 76.931 5.9370	7.60623E+05 19.607 79.097 0.46100	62319. 0.7710 40.213 0.51700	47.000 0.9390 2.9930 0.94500	23.141 6.9440 3.0420
140	18.000 30.050 06.664 7.3900	7.60623E+05 25.053 37.756 0.67000	62520. 9.3090 15.037 0.64600	47.000 6.1450 4.0940 0.40000	34.000 3.0700 5.1170

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
141 18.000	7.60623E+05	62721.	47.000	27.939
25.189	17.266	12.199	10.578	7.6540
148.80	111.89	58.593	5.1578	6.1770
8.0120	0.98360	0.98300	0.98100	
142 18.000	7.60623E+05	62923.	48.000	18.271
16.962	15.293	10.385	7.5770	5.6680
107.85	57.418	32.129	4.6160	5.4040
7.4500	0.93100	1.0750	1.1020	
143 18.000	7.60623E+05	63124.	47.000	18.660
16.526	10.506	8.8210	5.9640	5.1270
77.806	35.568	26.285	4.1000	5.0740
6.4690	0.55100	0.47500	0.68000	
144 18.000	7.60623E+05	63325.	47.000	14.274
14.240	9.9370	8.4150	6.6530	5.6090
78.812	44.395	31.459	3.6890	4.3980
6.1520	0.53700	0.40700	0.57900	
145 18.000	7.60623E+05	63432.	26.000	9.0520
18.348	5.3580	9.7260	6.8980	3.3730
94.596	47.576	11.375	4.1140	5.1100
7.7600	0.71000	0.83900	0.69900	
146 19.000	7.60629E+05	43059.	47.000	19.133
18.625	26.874	9.4550	6.4700	2.0750
89.402	41.858	4.3880	1.5940	4.1780
7.0440	0.25100	0.45200	0.18300	
147 19.000	7.60629E+05	43301.	47.000	14.404
16.213	26.375	7.3720	5.2560	2.8970
54.346	27.625	8.3950	1.3040	3.4280
6.4560	0.16600	0.31100	0.22700	

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
155 19.000	7.60629E+05	44989.	45.000	45.379
65.507	59.157	3.3830	5.8860	3.7460
11.445	34.646	14.031	0.84300	1.0360
4.7790	5.00000E-02	0.17200	0.32900	
156 19.000	7.60629E+05	45111.	46.000	27.040
63.595	59.576	11.065	6.5750	5.7130
122.44	43.226	32.637	0.76300	1.5220
4.0380	0.11500	0.22500	0.44000	
157 19.000	7.60629E+05	45313.	47.000	3.1150
46.640	59.570	5.3980	7.5240	4.7170
29.048	56.607	22.246	0.93600	1.2690
3.4210	6.60000E-02	0.16700	0.38600	
158 19.000	7.60629E+05	45512.	46.000	10.530
41.307	56.921	8.8600	9.5250	5.0330
78.492	90.720	25.333	0.93000	1.5560
3.5880	7.00000E-02	0.23400	0.33800	
159 19.000	7.60629E+05	45713.	47.000	355.43
27.983	52.910	17.451	20.720	5.4740
384.53	429.30	29.967	1.0150	1.7110
3.5410	0.13800	0.41100	0.39300	
160 19.000	7.60629E+05	45914.	47.000	339.09
350.92	48.577	4.0780	7.6140	6.2610
16.632	57.969	39.195	1.1210	2.3700
3.1790	0.13500	0.23600	0.34000	
161 19.000	7.60629E+05	50114.	47.000	346.66
6.2690	44.084	4.4620	8.3430	7.7340
19.909	69.688	59.822	1.3560	2.3590
3.7550	0.10000	0.17200	0.58400	

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
148 19.000	7.60629E+05	43582.	47.000	18.802
21.171	30.870	8.6550	7.0590	2.1560
74.903	49.826	4.6470	1.2110	3.0370
6.2180	0.14900	0.28600	0.27200	
149 19.000	7.60629E+05	43702.	47.000	26.771
27.376	34.141	7.5760	5.1880	3.0830
57.393	26.917	9.5050	1.0270	2.5590
5.5460	0.12300	0.29000	0.26900	
150 19.000	7.60629E+05	43903.	47.000	22.619
25.657	35.691	11.342	8.6050	5.8890
128.63	74.854	34.604	1.0120	2.4560
5.2800	0.16900	0.32400	0.45200	
151 19.000	7.60629E+05	44105.	47.000	17.218
19.184	37.865	9.8810	7.0520	4.6170
96.068	49.725	21.312	0.79500	1.9390
4.4950	0.16100	0.31700	0.38900	
152 19.000	7.60629E+05	44305.	45.000	47.310
38.768	52.530	9.9150	6.1330	4.1480
98.298	37.616	17.141	0.66800	1.5920
4.3920	0.11600	0.18000	0.31100	
153 19.000	7.60629E+05	44507.	46.000	35.186
41.991	56.260	7.8450	5.8140	3.7650
61.551	36.171	14.175	0.73200	1.6690
4.5320	9.90000E-02	0.17300	0.29300	
154 19.000	7.60629E+05	44709.	45.000	26.120
45.762	56.314	6.1290	7.8730	3.9700
37.568	61.985	15.759	0.87000	1.7390
4.5120	6.70000E-02	0.24100	0.34900	

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST	DATE	TIME	NUM PTS	4M DIR
10M DIR	30M DIR	4M DSD	10M DSD	30M DSD
4M DVAR	10M DVAR	30M DVAR	4M SPD	10M SPD
30M SPD	4M SSD	10M SSD	30M SSD	
162 19.000	7.60629E+05	50315.	47.000	337.06
355.40	26.279	8.5080	9.8420	9.8810
72.393	96.864	97.625	1.2610	2.9660
4.2630	0.22400	0.26100	0.47800	
163 19.000	7.60629E+05	50515.	47.000	344.38
357.88	18.699	6.2530	6.2890	7.6830
39.095	39.548	57.809	1.4510	4.0220
4.7800	0.24500	0.31100	0.54500	
164 19.000	7.60629E+05	50716.	47.000	344.13
353.53	16.744	8.2560	4.2980	4.7700
68.167	18.474	22.750	1.3360	3.7980
4.6850	0.17500	0.35100	0.25600	
165 19.000	7.60629E+05	50917.	47.000	356.76
355.44	19.894	7.2160	5.9460	5.6140
52.068	35.356	31.515	1.2280	3.4350
4.5310	0.10000E-02	0.17000	0.33500	
166 19.000	7.60629E+05	51117.	47.000	2.4140
7.4790	33.162	8.9920	6.7710	5.6820
68.853	45.841	32.282	1.0780	3.1560
4.4200	9.40000E-02	0.15600	0.37200	
167 19.000	7.60629E+05	51318.	46.000	38.792
23.949	36.892	12.268	6.7580	4.3790
150.51	45.675	19.179	0.87800	2.4880
4.3820	0.16100	0.31300	0.30500	
168 19.000	7.60629E+05	51519.	46.000	34.273
24.423	35.766	5.7910	4.2290	3.5710
33.531	17.887	12.751	0.92000	2.3200
4.2150	0.70000E-02	0.16500	0.22900	

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
169	19.000 19.790 13.814 4.2360	7.60629E+05 35.711 14.559 4.70000E-02	51720. 3.7170 8.9740 0.11200	46.000 3.8160 0.98000 0.21200	24.760 2.9960 2.5410
170	19.000 21.195 13.324 4.0050	7.60629E+05 40.679 9.1490 3.80000E-02	51920. 3.6500 8.1530 9.90000E-02	47.000 3.0250 0.99500 0.19400	21.333 2.8520 2.4030
171	19.000 14.625 28.955 3.8740	7.60629E+05 34.121 9.4730 6.50000E-02	52120. 5.3910 5.5180 0.15100	47.000 3.0780 1.0330 0.17300	12.334 2.3490 2.4670
172	19.000 5.6750 20.339 4.1640	7.60629E+05 30.545 17.966 5.20000E-02	52321. 4.5100 12.289 0.11200	47.000 4.2390 1.1070 0.25500	1.7960 3.5060 2.7260
173	19.000 358.64 16.743 4.3960	7.60629E+05 28.219 17.723 9.40000E-02	52521. 4.0920 16.706 0.10600	47.000 4.2100 1.2730 0.29900	351.66 4.0070 3.0000
174	19.000 3.6600 17.331 4.4790	7.60629E+05 30.635 21.512 2.30000E-02	52537. 4.1630 4.9240 5.50000E-02	6.0000 4.6300 1.2730 0.12500	355.53 2.2190 3.0440
175	20.000 45.163 38.403 6.4480	7.60630E+05 47.256 28.808 0.19600	44559. 6.1970 3.0640 0.38600	47.000 5.3670 1.7060 0.19000	46.936 1.7500 4.1230

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
183	20.000 53.391 71.995 7.2640	7.60630E+05 51.742 24.406 0.27000	50209. 8.4050 1.2810 0.35500	46.000 4.9400 1.0400 0.15600	53.683 1.1320 4.3420
184	20.000 54.874 41.601 7.7020	7.60630E+05 51.277 30.396 0.22400	50409. 6.4500 1.6140 0.40700	46.000 5.5130 2.0670 0.17000	51.940 1.2700 4.8020
185	20.000 53.816 68.375 7.9810	7.60630E+05 52.930 46.700 0.30500	50610. 8.2690 7.4440 0.52200	46.000 6.8340 2.3050 0.33900	55.321 2.7200 5.0800
186	20.000 61.753 71.445 7.8920	7.60630E+05 57.977 41.199 0.26100	50910. 9.4530 13.599 0.44700	46.000 6.4190 1.9730 0.30000	63.252 3.6870 4.6140
187	20.000 58.213 52.088 6.8290	7.60630E+05 53.625 59.344 0.25000	51011. 7.2170 10.373 0.55400	46.000 7.7030 1.9700 0.40300	54.749 3.2210 4.2520
188	20.000 45.172 90.534 6.7350	7.60630E+05 47.865 34.162 0.34700	51212. 9.5150 15.516 0.40400	47.000 5.8450 2.0910 0.46500	44.688 3.390 4.7370
189	20.000 39.294 48.724 6.2560	7.60630E+05 43.690 32.460 0.21800	51413. 6.9600 18.804 0.41400	47.000 6.8970 1.8150 0.47500	38.022 4.3660 4.2580

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
176	20.000 42.956 26.953 6.3020	7.60630E+05 47.901 16.253 0.15700	44801. 5.1920 3.1790 0.28800	47.000 4.0310 1.7600 0.15300	41.588 1.7930 4.0680
177	20.000 44.375 26.377 6.1260	7.60630E+05 49.196 23.146 0.14500	45300. 5.3270 5.4220 0.30300	46.000 4.8110 1.5580 0.24300	45.396 2.3200 3.6330
178	20.000 39.651 49.007 6.4190	7.60630E+05 43.918 20.391 0.17900	45201. 6.9290 3.0170 0.30700	47.000 4.5140 1.5350 0.19200	35.320 1.7370 3.9400
179	20.000 37.628 47.628 6.5750	7.60630E+05 43.743 16.296 0.17800	45402. 6.9010 2.9120 0.28400	47.000 4.0370 1.6470 0.19200	31.636 1.7060 4.1240
180	20.000 37.231 36.663 6.7240	7.60630E+05 44.250 11.938 0.15700	45603. 6.0710 2.0580 0.22900	47.000 3.4550 1.6210 0.16800	32.445 1.4350 4.1030
181	20.000 41.306 40.484 7.1700	7.60630E+05 45.465 17.827 0.20000	45804. 6.3630 0.94300 0.32100	47.000 4.2220 1.8260 0.12200	39.555 0.97100 4.5080
182	20.000 46.059 41.247 7.1680	7.60630E+05 47.244 21.163 0.20600	50006. 6.4220 1.9650 0.35400	47.000 4.6080 1.8300 0.17500	45.154 1.4090 4.4090

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
190	20.000 37.668 79.016 5.6710	7.60630E+05 43.493 44.688 0.21600	51613. 8.0890 36.422 0.40700	47.000 6.6850 1.4190 0.60000	35.270 6.0350 3.4140
191	20.000 33.992 72.702 4.7920	7.60630E+05 42.567 44.373 0.17800	51814. 8.5270 34.060 0.31600	47.000 6.6610 1.3050 0.49500	34.335 5.8360 3.0750
192	20.000 30.378 50.027 4.6780	7.60630E+05 39.732 57.034 0.16100	52014. 7.0730 22.647 0.34000	47.000 7.5520 1.3020 0.38100	24.177 4.7800 3.1260
193	20.000 29.532 70.346 4.6550	7.60630E+05 41.496 44.478 0.17900	52215. 8.3870 33.007 0.32700	47.000 6.6690 1.3070 0.47400	25.581 5.7450 3.1480
194	20.000 31.998 81.422 4.4270	7.60630E+05 40.965 45.312 0.14600	52415. 9.0230 26.797 0.30600	47.000 6.7310 1.1610 0.38300	27.094 5.1770 2.7540
195	20.000 31.565 54.313 4.7640	7.60630E+05 46.509 46.673 0.12600	52615. 7.3700 26.618 0.30200	47.000 6.8320 1.2440 0.43500	25.202 5.1590 2.0520
196	20.000 36.296 69.385 4.5710	7.60630E+05 49.611 50.794 0.11700	52816. 8.3300 26.275 0.37300	47.000 7.1270 1.1950 0.42200	27.294 5.3170 2.7330

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
197 20.000 39.084 69.206 4.5290	7.60630E+05 55.447 48.346 0.12500	53017. 8.3190 29.954 0.27500	47.000 6.9530 0.99100 0.46200	24.704 5.4730 2.3600
198 20.000 32.118 99.428 4.0840	7.60630E+05 54.504 92.633 0.13100	53210. 9.9710 31.082 0.33000	47.000 9.6250 0.99800 0.41700	21.914 5.5750 2.1900
199 20.000 24.307 26.900 3.9880	7.60630E+05 51.785 33.504 0.11000	53418. 5.1870 29.859 0.30100	47.000 5.7880 1.1390 0.38800	10.534 5.4640 2.4920
200 20.000 10.480 11.370 3.7890	7.60630E+05 41.351 20.261 4.70000E-02	53619. 3.3720 36.046 0.10800	47.000 4.5010 1.2920 0.37600	359.88 6.0040 2.8700
201 20.000 2.6120 18.489 3.5140	7.60630E+05 32.667 19.427 5.90000E-02	53819. 4.3000 40.133 0.00000E-02	47.000 4.4080 1.3240 0.29700	351.54 6.3350 2.8450
202 20.000 357.72 24.481 3.0310	7.60630E+05 22.784 16.974 0.12800	54020. 4.9400 49.676 0.11500	47.000 4.1200 1.1260 0.24300	344.90 7.0400 2.7500
203 20.000 356.01 17.498 2.5770	7.60630E+05 12.225 36.516 0.20000E-02	54200. 4.1830 35.986 0.11300	39.000 6.8430 0.92000 0.17100	342.75 5.9990 2.3090

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
211 21.000 4.5640 107.86 3.4890	7.60715E+05 26.226 87.571 0.14600	50000. 10.386 33.828 0.13000	46.000 9.3580 1.1250 0.33500	341.76 5.8160 2.1860
212 21.000 4.7700 28.307 3.4250	7.60715E+05 25.016 105.33 9.90000E-02	50200. 5.3200 43.538 0.17200	47.000 10.263 1.1030 0.37200	338.44 6.5980 2.1480
213 21.000 11.090 24.068 3.4360	7.60715E+05 25.193 40.462 6.40000E-02	50401. 4.9060 39.357 0.13900	47.000 6.3610 1.3480 0.32700	351.26 6.2730 2.4230
214 21.000 15.484 22.151 3.6630	7.60715E+05 27.625 50.928 5.60000E-02	50601. 4.7050 37.135 0.16500	47.000 7.1360 1.3620 0.36100	355.00 6.0940 2.6300
215 21.000 9.0590 29.988 3.5990	7.60715E+05 25.233 61.069 0.15100	50802. 5.4760 53.072 0.22900	47.000 7.0150 1.4340 0.42900	349.16 7.3400 2.6690
216 21.000 3.4800 21.225 3.5030	7.60715E+05 17.848 24.513 0.16700	51002. 4.6070 73.756 0.34100	47.000 4.9510 1.4460 0.31800	345.39 8.5880 2.9780
217 21.000 355.00 8.7670 3.6280	7.60715E+05 9.3850 24.248 0.16800	51203. 4.9240 73.130 0.25700	47.000 8.5520 1.4750 0.37600	341.29 8.5520 3.6190

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
204 21.000 50.267 28.234 4.7360	7.60715E+05 45.261 18.180 0.11500	44558. 5.3140 6.7030 0.21800	46.000 4.2640 1.2540 0.21400	42.480 2.5890 2.7790
205 21.000 49.112 19.785 4.4040	7.60715E+05 45.647 17.753 9.10000E-02	44750. 4.4400 10.297 0.19600	46.000 4.2130 1.2010 0.25100	42.750 3.2090 2.6630
206 21.000 50.131 12.105 4.4540	7.60715E+05 45.096 12.097 7.50000E-02	44950. 3.4790 13.402 0.15500	46.000 3.4700 1.2430 0.20500	42.042 3.6610 2.6270
207 21.000 44.266 18.431 4.3150	7.60715E+05 42.599 20.007 7.20000E-02	45150. 4.2930 18.545 0.19500	46.000 4.4730 1.1420 0.31500	33.663 4.3060 2.5240
208 21.000 40.139 25.260 4.0240	7.60715E+05 41.050 19.210 7.00000E-02	45359. 5.0260 19.704 0.18600	47.000 4.3830 1.0910 0.30500	24.992 4.4390 2.4430
209 21.000 26.945 45.918 3.0730	7.60715E+05 37.872 34.421 0.10000E-02	45559. 6.8500 13.620 0.16200	47.000 5.0670 1.1360 0.24000	8.0560 3.6900 2.2740
210 21.000 14.348 60.049 3.6530	7.60715E+05 31.479 89.309 7.00000E-02	45801. 7.7490 15.216 0.19200	46.000 9.4500 1.2740 0.23300	354.35 3.9010 2.2590

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
218 21.000 358.32 38.277 3.7190	7.60715E+05 9.7910 47.867 0.23700	51403. 6.1870 58.992 0.20900	47.000 6.9190 1.5120 0.27000	345.65 7.6910 3.5140
219 21.000 359.84 81.978 3.8940	7.60715E+05 18.029 33.615 0.17900	51604. 9.0540 62.809 0.38000	47.000 5.7900 1.1820 0.37000	350.90 7.9300 2.9560
220 21.000 32.392 3.7760	7.60715E+05 16.756 21.738 0.14800	51804. 5.6910 52.099 0.16800	47.000 4.6620 1.2230 0.34500	355.62 7.2730 3.1430
221 21.000 7.6850 33.037 4.3150	7.60715E+05 16.666 10.520 7.10000E-02	52004. 5.7480 46.030 0.15900	47.000 4.3030 1.5690 0.32300	350.35 6.7850 3.6450
222 21.000 6.6430 22.891 4.4460	7.60715E+05 12.837 13.441 0.14100	52205. 4.7040 25.120 0.20000	47.000 3.6660 1.5410 0.20100	1.9580 5.0120 3.6400
223 21.000 12.380 46.548 4.5380	7.60715E+05 15.684 16.990 0.14200	52406. 6.8230 29.064 0.17300	47.000 4.1220 1.6430 0.29000	5.8110 5.4650 4.0360
224 21.000 13.933 23.595 4.3190	7.60715E+05 18.525 4.9860 0.12000	52607. 4.8570 13.421 0.13900	47.000 2.2330 1.6520 0.21100	11.596 3.6640 4.1760

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 10M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 10M DSD 10M SPD
225	21.000 16.002 30.005 4.1630	7.60715E+05 20.064 3.0550 9.90000E-02	52007. 5.5500 12.464 9.60000E-02	47.000 1.7480 1.5670 0.10600	10.779 3.5310 4.1310
226	21.000 19.353 20.157 4.1200	7.60715E+05 21.980 5.5010 0.10100	53000. 5.3060 9.7770 0.11000	47.000 2.3620 1.5490 0.17300	17.739 3.1270 4.0640
227	21.000 23.664 33.525 4.2170	7.60715E+05 25.976 2.1520 0.13000	53200. 5.7900 11.546 0.10100	47.000 1.4670 1.5740 0.20500	10.443 3.3980 4.0490
228	21.000 20.629 23.067 4.2760	7.60715E+05 30.166 3.2310 0.11500	53400. 4.0850 17.745 0.11700	47.000 1.7970 1.5300 0.26400	26.131 4.2120 3.9150
229	21.000 20.413 26.910 4.0040	7.60715E+05 32.706 5.1350 0.12900	53609. 5.1800 14.841 0.12600	47.000 2.2660 1.4200 0.23900	26.039 3.8520 3.6320
230	21.000 32.494 15.206 3.7670	7.60715E+05 33.000 7.4000 0.50000E-02	53009. 3.0990 0.2330 0.16100	47.000 2.7200 1.3070 0.14000	30.705 2.0690 3.3220
231	21.000 26.750 22.604 3.5460	7.60715E+05 30.074 5.5000 7.79999E-02	54010. 4.7630 6.6750 0.10100	47.000 2.3620 1.2460 0.15600	23.286 2.5040 3.0970

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 10M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 10M DSD 10M SPD
239	22.000 50.345 162.90 3.0730	7.60716E+05 31.306 107.92 0.43200	05402. 12.763 55.377 0.63200	46.000 10.300 1.0640 0.43900	49.500 7.4420 3.4110
240	22.000 46.197 105.00 4.0000	7.60716E+05 27.722 112.99 0.32000	05603. 10.290 37.600 0.63100	47.000 10.630 1.9270 0.46300	49.692 6.1390 3.4570
241	22.000 30.607 159.54 4.2260	7.60716E+05 21.657 00.193 0.35300	05804. 12.631 69.470 0.49200	47.000 0.9550 2.1340 0.40100	29.552 0.3350 3.0950
242	22.000 26.642 209.41 5.1590	7.60716E+05 10.902 137.14 0.46100	00005. 14.471 46.056 0.70000	47.000 11.711 2.2160 0.59900	31.901 6.7060 4.0350
243	22.000 32.402 167.99 4.0210	7.60716E+05 14.916 132.22 0.62500	00206. 12.961 40.662 0.94100	47.000 11.499 2.4130 0.04100	36.302 6.3770 4.1610
244	22.000 33.404 220.94 4.0630	7.60716E+05 21.702 119.15 0.52000	00407. 14.064 63.262 0.77900	47.000 10.916 2.4140 0.42200	33.436 7.9540 4.4510
245	22.000 30.440 103.09 4.9030	7.60716E+05 16.317 70.569 0.49600	00600. 10.153 69.333 0.75200	47.000 0.4010 2.6500 0.70100	29.170 0.3270 4.5740

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 10M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 10M DSD 10M SPD
232	21.000 25.331 17.009 3.3790	7.60715E+05 31.356 10.660 7.20000E-02	54210. 4.2200 7.1140 0.16200	47.000 3.2650 1.1770 0.12000	10.134 2.6670 2.7900
233	21.000 26.956 11.705 3.4240	7.60715E+05 33.646 4.3600 3.90000E-02	54329. 3.4210 3.2290 9.40000E-02	31.000 2.0000 1.0630 0.11000	19.361 1.7970 2.6040
234	22.000 45.524 110.45 4.1910	7.60716E+05 29.057 55.939 0.40200	04359. 10.509 41.960 0.54200	47.000 7.4790 2.2290 0.40900	47.016 6.4700 4.1670
235	22.000 30.032 70.000 3.4010	7.60716E+05 27.724 43.695 0.30400	04559. 0.8350 69.660 0.30600	46.000 6.6100 1.9340 0.42600	40.790 0.3470 3.2970
236	22.000 54.943 106.66 4.2590	7.60716E+05 36.014 94.960 0.32100	04001. 10.320 29.959 0.53500	47.000 9.7450 2.0160 0.42700	55.337 5.4730 3.6050
237	22.000 44.300 103.45 4.2230	7.60716E+05 32.420 71.104 0.37000	05001. 10.171 40.323 0.57000	46.000 0.4320 2.1340 0.52200	44.210 6.9510 3.0720
238	22.000 50.713 70.423 4.3350	7.60716E+05 35.745 46.261 0.33400	05201. 0.0560 18.410 0.46600	46.000 6.0020 2.0530 0.34700	53.274 4.2910 3.9300

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 10M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 10M DSD 10M SPD
246	22.000 19.192 127.19 5.7570	7.60716E+05 6.0600 01.532 0.70600	00009. 11.270 42.307 0.05600	47.000 9.0300 2.9100 0.63000	16.949 6.5110 4.7760
247	22.000 14.061 100.70 4.0320	7.60716E+05 3.3060 09.623 0.47900	01009. 10.430 114.33 0.64300	47.000 9.4070 2.5570 0.40700	15.459 10.693 4.4090
248	22.000 25.349 130.74 4.0650	7.60716E+05 10.749 69.712 0.54600	01210. 11.434 34.553 0.67600	47.000 0.3490 2.5390 0.61000	23.944 5.0700 4.4130
249	22.000 24.669 201.14 4.6270	7.60716E+05 11.561 176.14 0.60400	01411. 14.102 54.660 0.67500	47.000 13.272 2.3550 0.63000	29.361 7.3930 3.0970
250	22.000 29.334 155.75 5.2230	7.60716E+05 16.603 105.25 0.52000	01611. 14.600 44.613 0.65700	47.000 10.259 2.5990 0.59400	29.211 6.6790 4.0420
251	22.000 29.503 129.71 4.0210	7.60716E+05 14.697 105.22 0.41500	01012. 11.309 09.445 0.59000	47.000 10.250 2.3100 0.40000	33.320 9.4500 4.1610
252	22.000 30.363 69.779 4.4460	7.60716E+05 24.521 57.099 0.41200	02012. 0.3530 39.107 0.50300	47.000 7.5560 2.4100 0.55300	35.136 6.2540 4.1720

EOCR TESTS 14-24 (1976)
120. SECOND WIND STATISTICS
VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
253	22.000 17.064 99.895 4.0000	7.60716E+05 8.0720 79.374 0.33100	92214. 9.9950 34.828 0.48400	47.000 8.9090 2.3800 0.29700	16.500 5.9020 4.0020
254	22.000 26.327 194.75 4.8520	7.60716E+05 18.291 132.70 0.45900	92414. 13.955 62.117 0.63600	47.000 11.520 2.6350 0.69200	23.309 7.8010 4.4850
255	22.000 31.751 153.50 4.5690	7.60716E+05 17.363 81.133 0.62100	92615. 12.393 63.906 0.89200	47.000 9.0070 2.3670 0.77600	29.440 7.9940 4.3420
256	22.000 23.450 110.69 4.7020	7.60716E+05 12.929 82.489 0.44300	92816. 10.492 25.383 0.78800	47.000 9.0820 2.2900 0.59400	26.453 5.0300 4.1510
257	22.000 32.456 129.10 5.1890	7.60716E+05 17.443 80.809 0.50000	93017. 11.362 22.717 0.67700	47.000 9.9890 2.6050 0.59700	33.519 4.7660 4.5160
258	22.000 23.674 50.932 5.3860	7.60716E+05 13.196 40.352 0.37500	93218. 7.1370 21.795 0.60400	47.000 6.3520 3.0450 0.40400	24.360 4.6690 4.9470
259	22.000 36.272 125.21 5.1700	7.60716E+05 23.239 44.178 0.53500	93418. 11.190 27.013 0.50100	47.000 6.6470 2.7190 0.37900	39.345 5.1970 4.7290

EOCR TESTS 14-24 (1976)
120. SECOND WIND STATISTICS
VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
267	23.000 19.785 61.566 4.2730	7.60721E+05 9.9820 49.295 0.43200	85802. 7.8460 30.533 0.54000	47.000 7.0210 2.5640 0.51900	18.182 5.5260 4.1120
268	23.000 11.549 122.54 4.0590	7.60721E+05 3.1740 65.118 0.43100	90002. 11.070 36.496 0.53000	47.000 8.0700 2.2080 0.33000	12.482 6.0410 3.7540
269	23.000 14.410 132.92 4.2370	7.60721E+05 4.8250 43.350 0.34900	90203. 11.529 32.578 0.32600	47.000 6.5840 2.2750 0.34700	10.431 5.7080 3.0280
270	23.000 32.063 83.455 3.9740	7.60721E+05 16.511 39.990 0.35700	90404. 9.1350 65.085 0.52800	47.000 6.3240 2.3000 0.35000	34.857 8.1170 3.0010
271	23.000 15.159 221.71 3.5800	7.60721E+05 7.6900 218.34 0.40100	90605. 14.890 69.039 0.54100	47.000 8.3090 1.7730 0.50200	15.259 8.3090 2.9970
272	23.000 16.944 95.747 3.9710	7.60721E+05 6.8120 52.928 0.30500	90805. 9.7850 47.168 0.39500	47.000 7.2750 2.2080 0.38300	16.604 6.8680 3.6620
273	23.000 20.266 159.41 3.5520	7.60721E+05 10.907 101.16 0.35500	91006. 12.626 69.650 0.53700	47.000 10.058 1.7640 0.45900	17.598 8.3460 2.9590

EOCR TESTS 14-24 (1976)
120. SECOND WIND STATISTICS
VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
260	22.000 21.552 131.02 4.8390	7.60716E+05 22.045 62.964 0.53600	93618. 11.481 34.276 0.58700	47.000 7.9350 2.7000 0.56800	33.791 5.8550 4.6570
261	22.000 44.377 122.15 4.5100	7.60716E+05 28.793 83.338 0.45600	93820. 11.052 65.232 0.64500	47.000 9.1290 2.3740 0.71800	44.445 8.0770 4.0390
262	22.000 46.214 56.991 3.8760	7.60716E+05 18.711 111.06 0.29800	93918. 7.5490 147.12 0.70600	23.000 10.530 2.1750 0.40000	54.439 12.130 3.7510
263	23.000 26.619 532.44 3.0410	7.60721E+05 15.271 318.16 0.42800	84958. 23.075 195.88 0.60100	47.000 17.037 1.5710 0.76100	27.822 13.996 2.4090
264	23.000 13.385 76.202 4.0630	7.60721E+05 3.4140 35.655 0.28400	85159. 8.7290 37.524 0.39300	47.000 5.9710 2.4900 0.37600	12.267 6.1260 4.0270
265	23.000 23.137 119.06 3.6990	7.60721E+05 11.152 73.627 0.43500	85359. 10.911 43.871 0.57600	47.000 8.5010 2.3150 0.66700	20.523 6.6240 3.5200
266	23.000 11.786 206.29 4.2010	7.60721E+05 2.8080 141.62 0.41800	85601. 14.353 49.970 0.59800	47.000 11.900 2.4970 0.45400	15.242 7.0690 4.1380

EOCR TESTS 14-24 (1976)
120. SECOND WIND STATISTICS
VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
274	23.000 23.003 209.61 2.9860	7.60721E+05 18.203 180.52 0.31500	91207. 14.478 111.79 0.49100	47.000 13.436 1.7960 0.69000	22.032 10.573 2.8590
275	23.000 665.11 3.3190	7.60721E+05 8.1530 361.44 0.67600	91407. 25.790 233.91 0.83100	46.000 19.012 1.7860 0.82100	18.547 15.294 3.0600
276	23.000 52.840 173.00 3.6270	7.60721E+05 27.678 128.16 0.42100	91607. 13.183 82.203 0.61700	46.000 11.321 1.7970 0.57100	46.566 9.0670 3.0880
277	23.000 31.066 161.61 3.1240	7.60721E+05 18.333 97.269 0.41800	91809. 12.713 116.38 0.57600	47.000 9.8630 1.7440 0.41900	37.510 10.788 2.8940
278	23.000 29.371 202.52 3.0450	7.60721E+05 12.849 134.17 0.36400	92010. 14.231 290.05 0.53000	47.000 11.583 1.6980 0.40200	29.391 17.031 2.9410
279	23.000 50.237 190.91 3.3080	7.60721E+05 33.872 103.95 0.43400	92211. 14.103 65.887 0.53000	47.000 10.195 1.7530 0.50100	46.776 8.1170 3.0170
280	23.000 39.646 48.446 3.1070	7.60721E+05 25.106 52.204 0.22700	92412. 6.9600 24.541 0.35900	47.000 7.2310 1.8820 0.26000	43.279 4.9540 2.9820

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 10M SPD 30M SSD	4M DIR 30M DSD 10M SPD
281	23.000 28.944 221.07 2.6550	7.60721E+05 15.343 178.73 0.40700	92612. 14.868 180.87 0.65400	46.000 13.369 1.5490 0.49700	37.032 10.044 2.3530
282	23.000 39.096 244.22 2.7720	7.60721E+05 25.969 221.10 0.41200	92813. 15.628 214.68 0.63700	46.000 14.869 1.5310 0.56300	37.921 14.652 2.4340
283	23.000 53.945 406.13 2.6170	7.60721E+05 34.024 225.39 0.41900	93012. 20.153 92.481 0.54500	46.000 15.013 1.3330 0.52000	54.353 9.6170 2.2230
284	23.000 40.047 413.25 2.6060	7.60721E+05 28.514 336.48 0.49200	93214. 20.329 210.19 0.72600	47.000 18.343 1.3950 0.70600	47.024 14.498 2.3140
285	23.000 33.154 81.796 3.4910	7.60721E+05 22.601 57.276 0.39300	93415. 9.0440 48.100 0.48000	47.000 7.5680 2.1060 0.42500	29.275 6.9410 3.2530
286	23.000 20.587 238.79 2.3600	7.60721E+05 19.174 181.01 0.38200	93617. 15.192 169.06 0.43800	47.000 13.484 1.4380 0.54500	31.622 13.002 2.2300
287	23.000 5.5410 276.89 1.9790	7.60721E+05 359.59 286.18 0.30800	93818. 16.640 80.472 0.41400	46.000 16.917 1.0910 0.25500	7.0000 8.9710 1.7080

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 10M SPD 30M SSD	4M DIR 30M DSD 10M SPD
295	24.000 16.297 56.321 3.6830	7.60722E+05 12.722 45.249 0.19700	92405. 7.5050 53.171 0.27800	47.000 6.7270 2.2270 0.36100	13.749 7.2920 3.7330
296	24.000 44.979 131.87 3.0550	7.60722E+05 31.798 91.412 0.42900	92605. 11.483 44.530 0.61700	46.000 9.5610 2.1580 0.42200	44.161 6.6730 3.6960
297	24.000 51.296 58.959 3.6850	7.60722E+05 35.762 31.744 0.32600	92805. 7.6700 47.759 0.37600	46.000 5.6340 2.3930 0.41400	52.548 6.9110 3.9570
298	24.000 35.961 195.25 3.4580	7.60722E+05 21.964 150.73 0.45000	93005. 13.973 58.001 0.57600	47.000 12.277 1.9390 0.38100	41.528 7.6160 3.3020
299	24.000 31.461 162.11 3.7550	7.60722E+05 22.906 83.272 0.37300	93200. 12.732 46.608 0.47000	47.000 9.1250 2.1050 0.33200	30.970 6.8270 3.5630
300	24.000 23.292 188.87 3.0060	7.60722E+05 14.866 84.677 0.40800	93410. 13.743 57.290 0.55500	47.000 9.2020 1.5510 0.39300	25.291 7.5690 2.9460
301	24.000 12.871 115.93 3.2160	7.60722E+05 7.0910 93.817 0.30500	93611. 10.767 82.658 0.45700	47.000 9.6860 1.6870 0.42300	10.583 9.1030 3.0150

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 10M SPD 30M SSD	4M DIR 30M DSD 10M SPD
288	23.000 26.715 995.05 2.1520	7.60721E+05 18.115 826.53 0.36300	94019. 31.544 264.49 0.57200	45.000 28.749 1.0710 0.46100	24.649 16.263 1.6990
289	23.000 37.321 300.56 2.6630	7.60721E+05 7.6240 190.00 0.41600	94220. 17.337 164.35 0.56600	46.000 13.013 1.3360 0.49400	42.707 12.820 2.1250
290	23.000 6.6570 207.61 2.5790	7.60721E+05 3.3670 128.26 0.25700	94322. 14.409 209.57 0.21600	24.000 11.325 1.4680 0.14700	13.219 14.477 2.2750
291	24.000 41.498 155.14 3.1670	7.60722E+05 27.016 131.61 0.41000	91558. 12.455 139.45 0.63200	46.000 11.472 1.8970 0.68200	43.358 11.809 3.1250
292	24.000 53.062 104.91 3.2750	7.60722E+05 34.763 90.722 0.34200	91801. 10.243 40.385 0.56000	47.000 9.9360 1.9280 0.38300	57.012 6.3550 3.3070
293	24.000 38.341 67.339 3.0660	7.60722E+05 29.054 93.123 0.23500	92002. 8.2060 53.657 0.51800	46.000 9.6500 1.8630 0.34300	39.041 7.3250 3.0800
294	24.000 24.423 175.04 3.3040	7.60722E+05 13.537 172.04 0.49900	92203. 13.230 55.786 0.77800	47.000 13.116 1.8450 0.61000	19.273 7.4690 2.9730

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 10M SPD 30M SSD	4M DIR 30M DSD 10M SPD
302	24.000 27.530 130.19 3.3630	7.60722E+05 14.172 111.03 0.34100	93811. 11.410 96.593 0.54700	47.000 10.537 1.9890 0.41000	30.250 9.0200 3.2980
303	24.000 22.509 123.56 3.6420	7.60722E+05 9.5890 66.630 0.42100	94012. 11.116 61.685 0.56800	47.000 8.1630 2.0460 0.40900	22.012 7.6520 3.5400
304	24.000 21.328 92.531 3.5890	7.60722E+05 12.004 44.201 0.24900	94214. 9.6190 55.096 0.44000	47.000 6.6480 1.8820 0.37200	20.464 7.4230 3.2020
305	24.000 24.065 239.06 3.4960	7.60722E+05 10.068 252.06 0.34500	94415. 15.487 126.79 0.66200	47.000 15.076 1.7520 0.46500	22.801 11.260 2.9360
306	24.000 2.3510 73.249 3.1810	7.60722E+05 0.60000 26.038 0.33300	94615. 8.5590 62.977 0.48400	46.000 5.1030 1.9310 0.38300	357.39 7.9360 3.1420
307	24.000 35.195 811.19 2.7400	7.60722E+05 31.765 669.70 0.59200	94816. 20.481 275.12 0.82900	47.000 25.079 1.2120 0.69900	43.928 16.587 2.0920
308	24.000 40.209 162.81 3.1220	7.60722E+05 36.504 153.48 0.39200	95017. 12.720 110.27 0.61300	46.000 12.399 1.7750 0.59500	43.402 10.501 2.0660

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
309	24.000 64.811 468.82 2.6350	7.60722E+05 51.647 360.43 0.42000	95218. 21.652 81.318 0.55500	47.000 18.985 1.3710 0.40500	69.608 9.0180 2.2020
310	24.000 26.161 378.39 2.5000	7.60722E+05 20.748 270.48 0.44000	95418. 19.452 184.93 0.75200	46.000 16.446 1.4290 0.75200	32.928 13.599 2.3360
311	24.000 25.166 169.36 3.1380	7.60722E+05 11.423 95.968 0.31500	95620. 13.014 28.154 0.46400	47.000 9.7968 1.6480 0.38600	25.402 5.3060 2.8030
312	24.000 31.079 135.47 2.4960	7.60722E+05 14.009 186.11 0.30200	95821. 11.639 200.63 0.47400	47.000 13.642 1.5020 0.44700	33.581 14.164 2.3220
313	24.000 49.687 118.61 2.6900	7.60722E+05 37.374 77.323 0.28900	1.00022E+05 10.891 63.535 0.39800	46.000 8.7930 1.6750 0.42200	58.046 7.9710 2.7170
314	24.000 22.997 1433.1 1.9900	7.60722E+05 11.038 914.62 0.71500	1.00223E+05 37.856 773.34 1.0290	46.000 30.243 1.0580 0.69400	23.078 27.809 1.9150
315	24.000 2.5920 232.83 3.4040	7.60722E+05 354.69 186.59 0.55200	1.00425E+05 15.232 121.84 0.70400	47.000 13.668 1.6730 0.39400	2.0760 11.002 2.7590

EOCR TESTS 14-24 (1976)

120. SECOND WIND STATISTICS

VARIABLE LABELS...

	TEST 10M DIR 4M DVAR 30M SPD	DATE 30M DIR 10M DVAR 4M SSD	TIME 4M DSD 30M DVAR 10M SSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
316	24.000 354.20 298.69 3.0740	7.60722E+05 358.46 183.16 0.53400	1.00626E+05 17.283 129.95 0.74000	47.000 13.534 1.5350 0.25100	347.92 11.400 2.5500
317	24.000 20.830 364.89 2.3160	7.60722E+05 359.58 164.90 0.29200	1.00825E+05 19.102 242.98 0.42200	46.000 12.841 1.2480 0.37200	20.975 15.589 2.0120
318	24.000 19.989 428.38 3.3350	7.60722E+05 10.229 401.29 0.60000	1.01026E+05 20.697 214.05 0.90500	47.000 20.832 1.8620 0.79200	20.806 14.630 2.8640
319	24.000 25.815 136.74 2.9980	7.60722E+05 14.687 147.21 0.40500	1.01227E+05 11.693 65.029 0.54200	47.000 12.133 1.8580 0.54600	25.771 9.0640 3.0010
320	24.000 27.270 0.00000 2.1990	7.60722E+05 7.8800 0.00000 0.00000	1.01229E+05 0.00000 0.00000 0.00000	1.0000 0.00000 1.4260 0.00000	28.270 0.00000 2.1060

APPENDIX C: Total Wind Statistics for Each Test.

This appendix contains wind statistics for the entire duration of each test. The next eight values for variables following the variable labeled "level" apply for that given height. Some of the statistics were calculated using the information in Appendix B.

Definitions of Variables Used.

TEST	Number of Test.
DATE	Date of test composed of six digits in the form YYMMDD where YY is the last two digits of the year, MM is the number of the month, and DD is the day of the month.
START	Time of beginning of the test in Mountain Standard Time in the form hhmmss where hh is the hour, mm is the minute, and ss is the second.
END	Time of end of the test in Mountain Standard Time in the form hhmmss where hh is the hour, mm is the minute, and ss is the second.
NUM PTS	Number of wind observations recorded during the entire test at the specified height.
LEVEL	Height in meters.
DIR	Average wind direction in degrees for the entire test at the previously specified height.
SPD	Average wind speed in m/sec for the entire test at the previously specified height.
TOT VAR	Variance of the wind direction in deg^2 for the entire test at the previously specified height.
DIFF VAR	Average of the two minute interval wind direction variances in deg^2 for the entire test at the previously specified height.
TRNSPT V	Variance of the two minute interval wind direction averages in deg^2 for the entire test at the previously specified height.
TOT SIG	Square root of the variance of the wind direction in degrees for the entire test at the previously specified height.
DIFF SIG	Square root of the average of the two minute wind direction variances in degrees for the entire test at the previously specified height.

TRANSPT S Square root of the variance of the two minute interval wind direction averages in degrees for the entire test at the previously specified height.

EOCR TESTS 4-13 (1975)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRANSP V	DATE DIR TOT SIG	START VEL DIFF SIG	END TOT VAR TRANSP S	NUM PTS DIFF VAR
1	4.0000 4.0000 49.493	7.50709E+05 20.335 11.232	65900. 3.0214 9.1755	74900. 126.17 7.0351	185.00 84.190
2	4.0000 10.000 30.997	7.50709E+05 24.767 8.7390	65900. 3.6083 6.9301	74900. 76.370 5.5675	185.00 48.026
3	4.0000 30.000 39.140	7.50709E+05 14.545 8.7974	65900. 4.5010 7.5471	74900. 77.394 6.2562	185.00 56.958
4	5.0000 4.0000 92.689	7.50718E+05 245.56 14.276	1.10700E+05 7.2544 11.684	1.20700E+05 203.82 9.6275	193.00 136.52
5	5.0000 10.000 84.997	7.50718E+05 245.57 13.091	1.10700E+05 8.0169 10.062	1.20700E+05 171.38 9.2194	193.00 101.25
6	5.0000 30.000 88.192	7.50718E+05 246.82 12.371	1.10700E+05 8.9655 8.9751	1.20700E+05 153.03 9.3911	193.00 80.553
7	6.0000 4.0000 707.59	7.50721E+05 48.145 30.348	72400. 1.4842 10.464	82400. 921.02 28.064	351.00 109.50
8	6.0000 10.000 608.27	7.50721E+05 38.352 26.997	72400. 1.6705 10.176	82400. 728.82 24.663	351.00 103.56
9	6.0000 30.000 409.42	7.50721E+05 42.201 21.515	72400. 2.5175 7.7716	82400. 462.89 20.234	351.00 60.398
10	7.0000 4.0000 26892.	7.50722E+05 300.85 620.11	64300. 7827.3 111.47	73000. 3.94526E+05 169.98	96.000 12426.

EOCR TESTS 4-13 (1975)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRANSP V	DATE DIR TOT SIG	START VEL DIFF SIG	END TOT VAR TRANSP S	NUM PTS DIFF VAR
21	10.000 30.000 806.26	7.50720E+05 192.75 31.105	1.12400E+05 3.2406 11.869	1.20700E+05 967.51 20.395	890.00 140.68
22	11.000 4.0000 2993.8	7.50812E+05 81.883 64.896	1.10800E+05 0.00499 40.359	1.13500E+05 4211.5 54.716	766.00 1628.9
23	11.000 10.000 2562.6	7.50812E+05 78.311 60.794	1.10800E+05 0.07132 35.096	1.13500E+05 3695.9 50.623	766.00 1231.8
24	11.000 30.000 2309.0	7.50812E+05 82.465 56.947	1.10800E+05 0.94477 24.047	1.13500E+05 3242.9 48.052	766.00 578.25
25	12.000 4.0000 186.70	7.50813E+05 40.190 16.062	74200. 2.2861 8.0426	81200. 257.97 13.664	1036.0 64.684
26	12.000 10.000 200.02	7.50813E+05 41.982 16.368	74200. 2.4239 7.6502	81200. 267.92 14.423	1036.0 58.525
27	12.000 30.000 107.06	7.50813E+05 42.818 12.050	74200. 3.5426 5.9280	81200. 145.20 10.347	1036.0 35.141
28	13.000 4.0000 1494.9	7.50814E+05 25.784 48.892	1.11700E+05 1.3583 40.190	1.21700E+05 2390.5 38.664	2067.0 1615.2
29	13.000 10.000 1282.8	7.50814E+05 29.902 44.451	1.11700E+05 1.4819 38.398	1.21700E+05 1975.9 35.816	2067.0 1474.4
30	13.000 30.000 1059.8	7.50814E+05 22.399 39.669	1.11700E+05 1.7257 26.308	1.21700E+05 1573.6 32.542	2067.0 691.67

EOCR TESTS 4-13 (1975)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRANSP V	DATE DIR TOT SIG	START VEL DIFF SIG	END TOT VAR TRANSP S	NUM PTS DIFF VAR
11	7.0000 10.000 2061.4	7.50722E+05 256.56 461.76	64300. 11240. 99.096	73000. 2.13220E+05 53.492	96.000 9020.0
12	7.0000 30.000 19823.	7.50722E+05 209.91 451.20	64300. 9881.3 92.903	73000. 2.03570E+05 140.79	96.000 8630.9
13	8.0000 4.0000 3009.1	7.50724E+05 304.88 57.300	44800. 0.57920 11.589	51700. 3292.5 54.855	101.00 134.31
14	8.0000 10.000 1456.4	7.50724E+05 296.09 40.174	44800. 1.0183 10.606	51700. 1614.0 38.163	101.00 112.50
15	8.0000 30.000 731.65	7.50724E+05 344.91 28.042	44800. 1.6490 0.8232	51700. 831.07 27.853	101.00 77.649
16	9.0000 4.0000 804.69	7.50728E+05 3.3272 30.348	60300. 1.7172 12.011	70300. 920.99 28.371	1765.0 144.27
17	9.0000 10.000 614.81	7.50728E+05 20.820 26.011	60300. 2.7753 7.7364	70300. 676.56 24.795	1765.0 59.852
18	9.0000 30.000 237.78	7.50728E+05 30.512 15.064	60300. 4.0365 5.9930	70300. 251.67 15.420	1765.0 35.917
19	10.000 4.0000 965.67	7.50731E+05 180.97 58.398	1.12400E+05 0.71383 42.184	1.20700E+05 3410.3 31.075	890.00 1779.5
20	10.000 10.000 480.33	7.50731E+05 178.11 27.330	1.12400E+05 3.0303 23.234	1.20700E+05 746.94 21.916	890.00 539.80

EOCR TESTS 14-24 (1976)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRANSP V	DATE DIR TOT SIG	START SPD DIFF SIG	END TOT VAR TRANSP S	NUM PTS DIFF VAR
1	14.000 4.0000 19.357	7.60506E+05 46.530 9.4360	71900. 6.4940 0.3920	01900. 09.044 4.4000	1225.0 70.427
2	14.000 10.000 17.966	7.60506E+05 46.379 8.1720	71900. 7.7520 7.0910	01900. 66.777 4.2390	1225.0 50.286
3	14.000 30.000 15.072	7.60506E+05 47.445 6.9610	71900. 9.4560 5.0160	01900. 49.462 3.0820	1225.0 33.020
4	15.000 4.0000 321.17	7.60512E+05 19.547 21.256	71800. 1.0860 12.296	01900. 451.01 17.021	1343.0 151.20
5	15.000 10.000 310.00	7.60512E+05 20.600 20.002	71800. 3.9960 10.064	01800. 400.00 17.057	1343.0 101.29
6	15.000 30.000 329.09	7.60512E+05 22.161 19.539	71800. 4.6300 7.3220	01800. 301.76 10.163	1343.0 53.617
7	16.000 4.0000 311.64	7.60518E+05 24.217 20.702	71600. 2.9250 11.510	01600. 431.00 17.653	1316.0 132.67
8	16.000 10.000 305.16	7.60518E+05 24.626 19.735	71600. 3.1550 9.9620	01600. 309.47 17.469	1316.0 99.237
9	16.000 30.000 233.06	7.60521E+05 29.029 17.146	71600. 3.5220 9.3300	01600. 293.99 15.266	1316.0 07.056
10	17.000 4.0000 5029.3	7.60521E+05 341.70 72.853	55100. 0.64900 14.110	65100. 5307.5 70.910	1200.0 199.10

EOCR TESTS 14-24 (1976)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRANSP V	DATE DIR TOT SIG	START SPD DIFF SIG	END TOT VAR TRANSP S	NUM PTS DIFF VAR
21	20.000 30.000 136.11	7.60630E+05 46.507 12.210	44400. 5.5400 4.3500	54200. 149.29 11.667	1349.0 18.900
22	21.000 4.0000 330.95	7.60715E+05 8.4750 19.332	44400. 1.2700 5.6220	54400. 373.71 10.411	1300.0 31.603
23	21.000 10.000 109.75	7.60715E+05 10.630 14.553	44400. 3.0050 5.2140	54400. 211.79 13.775	1300.0 27.181
24	21.000 30.000 96.365	7.60715E+05 27.243 11.067	44400. 3.0790 5.3010	54400. 122.47 9.0170	1300.0 20.097
25	22.000 4.0000 69.153	7.60716E+05 33.515 14.252	04200. 2.3420 11.454	94200. 203.13 0.3160	1335.0 131.19
26	22.000 10.000 60.719	7.60716E+05 32.075 12.117	04200. 4.1250 9.3600	94200. 146.03 7.7920	1335.0 07.757
27	22.000 30.000 49.413	7.60716E+05 19.177 9.9420	04200. 4.6130 7.1060	94200. 98.049 7.0290	1335.0 50.502
28	23.000 4.0000 120.04	7.60721E+05 26.400 10.127	04000. 1.7770 15.609	94600. 320.60 11.315	1204.0 243.64
29	23.000 10.000 136.76	7.60721E+05 26.400 16.444	04000. 2.0950 13.113	94600. 270.39 11.694	1204.0 171.96
30	23.000 30.000 74.504	7.60721E+05 14.200 12.999	04000. 3.2250 10.520	94600. 160.97 0.6320	1204.0 110.66

EOCR TESTS 14-24 (1976)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRANSP V	DATE DIR TOT SIG	START SPD DIFF SIG	END TOT VAR TRANSP S	NUM PTS DIFF VAR
11	17.000 10.000 1003.6	7.60521E+05 359.41 43.720	55100. 1.1570 10.275	65100. 1911.4 42.469	1200.0 105.50
12	17.000 30.000 402.70	7.60521E+05 26.790 22.500	55100. 2.3420 5.0700	65100. 506.23 21.972	1200.0 34.453
13	10.000 4.0000 120.35	7.60623E+05 30.320 14.156	53500. 3.9670 0.6070	63500. 200.30 10.971	1379.0 74.075
14	10.000 10.000 105.04	7.60623E+05 36.779 12.517	53500. 4.8500 6.7270	63500. 156.69 10.200	1379.0 45.257
15	10.000 30.000 90.721	7.60623E+05 32.119 11.240	53500. 6.7110 5.0720	63500. 126.52 9.9360	1379.0 25.721
16	10.000 4.0000 336.34	7.60629E+05 9.0370 20.217	42900. 1.0090 0.1600	52900. 400.74 10.340	1311.0 66.509
17	10.000 10.000 216.30	7.60629E+05 16.311 16.459	42900. 2.4030 7.4530	52900. 270.09 14.710	1311.0 55.540
18	10.000 30.000 132.02	7.60629E+05 37.734 12.420	42900. 4.4140 4.9200	52900. 154.24 11.490	1311.0 24.200
19	20.000 4.0000 306.50	7.60630E+05 35.224 21.099	44400. 1.4440 7.1900	54200. 445.15 19.662	1349.0 51.016
20	20.000 10.000 252.72	7.60630E+05 30.016 16.929	44400. 3.4650 5.9450	54200. 206.60 15.097	1349.0 35.345

EOCR TESTS 14-24 (1976)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRANSP V	DATE DIR TOT SIG	START SPD DIFF SIG	END TOT VAR TRANSP S	NUM PTS DIFF VAR
31	24.000 4.0000 246.47	7.60722E+05 29.451 21.392	91400. 1.6040 15.750	1.01400E+05 457.63 15.699	1354.0 240.06
32	24.000 10.000 203.03	7.60722E+05 20.001 10.961	91400. 2.0370 13.622	1.01400E+05 359.53 14.249	1354.0 105.57
33	24.000 30.000 154.09	7.60722E+05 10.240 16.049	91400. 3.0770 11.000	1.01400E+05 257.59 12.413	1354.0 122.76

APPENDIX D: Normalized Concentrations

This appendix contains a listing by test, arc, and gas of the normalized concentration values. Ground sampler positions are numbered 1-520 inclusive and tower data 6x0-6x4 where x is the tower number 1-6. Miscellaneous sampler positions are numbered 701-704 inclusive. These samplers were located on the lowest level roof on the reactor building. No ground samples were taken at the 200 meter arc during any of the tests nor at the 50 meter arc during tests 9 and 10. No miscellaneous samples were taken during tests 3-10 inclusive.

EOCR TEST 3 NRC STAB F 7/8/75 0606-0706 MST

GAS 5 AVERAGE WINDS: SPEED 1.3 M/S ;DIRECTION 0. DEGREES
SOURCE STRENGTH 0.0462 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M	100. M	400. M
GLN	CONC	GLN	CONC
120.	20 1.16E-05	60 0.00E+00	200 0.00E+00
186.	31 0.82E-06	91 0.00E+00	211 0.00E+00
192.	32 1.65E-05	92 7.34E-06	212 0.00E+00
198.	33 2.29E-05	93 1.96E-05	213 0.00E+00
204.	34 2.98E-05	94 4.66E-05	214 1.17E-05
210.	35 3.25E-05	95 6.16E-05	215 3.78E-05
216.	36 2.83E-05	96 7.77E-05	216 5.02E-05
222.	37 2.22E-05	97 5.10E-05	217 3.66E-05
228.	38 1.31E-05	98 0.00E+00	218 1.36E-05
234.	39 7.20E-06	99 5.29E-06	219 0.00E+00

GAS F AVERAGE WINDS: SPEED 0.5 M/S ;DIRECTION 0. DEGREES
SOURCE STRENGTH 0.9945 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M	100. M	400. M
GLN	CONC	GLN	CONC
54.	9 3.68E-06	69 0.00E+00	189 0.00E+00
120.	20 3.96E-06	80 0.00E+00	200 0.00E+00
132.	22 4.72E-06	82 0.00E+00	202 3.80E-06
138.	23 0.00E+00	83 0.00E+00	203 5.67E-06
144.	24 4.52E-06	84 0.00E+00	204 2.53E-06
150.	25 0.00E+00	85 0.00E+00	205 2.60E-06
156.	26 2.97E-06	86 0.00E+00	206 0.00E+00
160.	28 2.93E-06	88 0.00E+00	208 0.00E+00
174.	29 2.88E-05	89 0.00E+00	209 0.00E+00
180.	30 0.00E+00	90 0.00E+00	210 1.28E-05
186.	31 1.10E-04	91 3.92E-06	211 4.90E-06
192.	32 1.60E-04	92 5.33E-06	212 0.00E+00
198.	33 1.71E-04	93 1.18E-05	213 0.00E+00
204.	34 1.87E-04	94 2.50E-05	214 4.04E-06
210.	35 1.74E-04	95 5.90E-05	215 2.52E-06
216.	36 2.05E-04	96 0.52E-05	216 1.90E-05
222.	37 2.25E-04	97 9.92E-05	217 1.03E-05
228.	38 3.47E-04	98 0.00E+00	218 3.51E-06
234.	39 4.07E-04	99 3.70E-05	219 0.00E+00
240.	40 3.37E-04	100 1.61E-05	220 1.10E-05
246.	41 1.45E-04	101 6.65E-06	221 0.00E+00
252.	42 0.00E+00	102 3.37E-06	222 0.00E+00
258.	43 1.84E-05	103 0.00E+00	223 0.00E+00
264.	49 2.60E-06	109 0.00E+00	229 0.00E+00
300.	50 3.85E-06	110 0.00E+00	230 0.00E+00

EOCR TEST 3 NRC STAB F 7/8/75 0606-0706 MST

GAS F AVERAGE WINDS: SPEED 0.5 M/S ;DIRECTION 0. DEGREES
SOURCE STRENGTH 0.9945 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M	100. M	400. M
GLN	CONC	GLN	CONC
312.	52 8.11E-06	112 0.00E+00	232 0.00E+00
324.	54 2.92E-06	114 0.03E+00	234 0.00E+00

GAS B AVERAGE WINDS: SPEED 1.3 M/S ;DIRECTION 0. DEGREES
SOURCE STRENGTH 0.0982 GM/S RELEASED ROOF

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M	100. M	400. M
GLN	CONC	GLN	CONC
186.	31 1.02E-05	91 0.00E+00	211 0.00E+00
192.	32 3.31E-05	92 0.00E+00	212 0.00E+00
198.	33 3.92E-05	93 0.00E+00	213 0.00E+00
204.	34 5.34E-05	94 3.62E-05	214 0.00E+00
210.	35 5.70E-05	95 6.05E-05	215 1.05E-05
216.	36 5.02E-05	96 6.80E-05	216 1.85E-05
222.	37 3.68E-05	97 4.97E-05	217 0.00E+00
228.	38 2.55E-05	98 0.00E+00	218 0.00E+00
234.	39 1.08E-05	99 0.00E+00	219 0.00E+00

EOCR TEST 4 NRC STAB E 7/9/75 0559-0649 MST

GAS 5 AVERAGE WINDS: SPEED 4.4 M/S ;DIRECTION 15. DEGREES
SOURCE STRENGTH 0.0599 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
60.	18	9.66E-04	70	0.00E+00	190	0.00E+00	250	0.00E+00
156.	26	1.78E-05	86	0.00E+00	206	0.00E+00	266	0.00E+00
162.	27	2.72E-05	87	0.00E+00	207	0.00E+00	267	0.00E+00
168.	28	5.10E-05	88	0.00E+00	208	0.00E+00	268	0.00E+00
174.	29	7.67E-05	89	3.22E-05	209	0.00E+00	269	0.00E+00
180.	30	1.51E-04	90	1.76E-04	210	0.00E+00	270	2.97E-05
186.	31	1.79E-04	91	3.67E-04	211	2.46E-04	271	6.67E-05
192.	32	1.30E-04	92	4.31E-04	212	0.00E+00	272	9.02E-05
198.	33	1.87E-04	93	3.00E-04	213	1.57E-04	273	4.58E-05
204.	34	1.69E-04	94	2.37E-04	214	0.00E+00	274	7.36E-05
210.	35	0.00E+00	95	1.44E-04	215	0.00E+00	275	1.73E-05
222.	37	6.71E-05	97	0.00E+00	217	0.00E+00	277	0.00E+00
228.	38	2.49E-05	98	0.00E+00	218	0.00E+00	278	0.00E+00

GAS F AVERAGE WINDS: SPEED 3.1 M/S ;DIRECTION 20. DEGREES
SOURCE STRENGTH 0.9490 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
54.	9	1.87E-05	69	0.00E+00	189	0.00E+00	249	0.00E+00
60.	10	4.62E-05	70	0.00E+00	190	0.00E+00	250	0.00E+00
72.	12	1.79E-05	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	1.83E-05	75	0.00E+00	195	0.00E+00	255	0.00E+00
96.	16	2.84E-05	76	0.00E+00	196	0.00E+00	256	0.00E+00
102.	17	2.97E-05	77	0.00E+00	197	0.00E+00	257	0.00E+00
108.	18	3.40E-05	78	0.00E+00	198	0.00E+00	258	0.00E+00
132.	22	2.21E-05	82	0.00E+00	202	0.00E+00	262	0.00E+00
138.	23	2.67E-05	83	0.00E+00	203	0.00E+00	263	0.00E+00
144.	24	6.49E-05	84	3.37E-05	204	5.90E-04	264	1.65E-05
150.	25	0.00E+00	85	4.26E-05	205	0.00E+00	265	0.00E+00
156.	26	0.20E-05	86	0.00E+00	206	0.00E+00	266	0.00E+00
162.	27	1.35E-04	87	1.02E-05	207	0.00E+00	267	0.00E+00
168.	28	2.34E-04	88	2.40E-05	208	1.90E-05	268	0.00E+00
174.	29	3.87E-04	89	1.93E-05	209	7.15E-06	269	0.00E+00
180.	30	9.76E-04	90	1.58E-04	210	0.00E+00	270	2.13E-05
186.	31	1.29E-03	91	2.50E-04	211	1.30E-04	271	3.74E-05
192.	32	1.51E-03	92	5.07E-04	212	0.00E+00	272	6.73E-05
198.	33	3.38E-03	93	7.11E-04	213	4.27E-05	273	1.04E-05
204.	34	4.13E-03	94	7.94E-04	214	0.00E+00	274	6.66E-05
210.	35	0.00E+00	95	5.52E-04	215	0.00E+00	275	2.50E-05
222.	37	4.87E-03	97	0.00E+00	217	0.00E+00	277	0.00E+00

EOCR TEST 4 NRC STAB E 7/9/75 0559-0649 MST

GAS F AVERAGE WINDS: SPEED 3.1 M/S ;DIRECTION 20. DEGREES
SOURCE STRENGTH 0.9490 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M	100. M	400. M	800. M	
GLN	CONC	GLN	CONC	GLN	CONC
228.	38 3.40E-03	98 3.26E-05	218 0.00E+00	278 1.94E-05	
234.	39 1.37E-03	99 0.00E+00	219 0.00E+00	279 2.44E-05	
240.	40 1.70E-04	100 0.00E+00	220 2.39E-05	280 6.29E-05	
264.	44 7.11E-06	104 0.00E+00	224 0.00E+00	284 0.00E+00	
282.	47 2.79E-05	107 0.00E+00	227 0.00E+00	287 0.00E+00	
306.	51 3.17E-05	111 0.00E+00	231 0.00E+00	291 0.00E+00	

GAS B AVERAGE WINDS: SPEED 4.5 M/S ;DIRECTION 15. DEGREES
SOURCE STRENGTH 0.1322 GM/S RELEASED ROOF

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M	100. M	400. M	800. M
	GLN CONC	GLN CONC	GLN CONC	GLN CONC
156.	26 6.66E-05	86 0.00E+00	206 0.00E+00	266 0.00E+00
162.	27 1.25E-04	87 0.00E+00	207 0.00E+00	267 0.00E+00
168.	28 2.40E-04	88 0.00E+00	208 0.00E+00	268 0.00E+00
174.	29 2.75E-04	89 5.97E-05	209 0.00E+00	269 0.00E+00
180.	30 5.67E-04	90 2.51E-04	210 0.00E+00	270 0.00E+00
186.	31 6.06E-04	91 4.62E-04	211 1.19E-04	271 0.00E+00
192.	32 4.47E-04	92 5.56E-04	212 0.00E+00	272 0.00E+00
198.	33 5.70E-04	93 4.19E-04	213 9.52E-05	273 0.00E+00
204.	34 4.50E-04	94 3.05E-04	214 0.00E+00	274 0.00E+00
210.	35 0.00E+00	95 1.70E-04	215 1.72E-05	275 0.00E+00
222.	37 1.75E-04	97 0.00E+00	217 0.00E+00	277 0.00E+00
228.	38 8.42E-05	98 0.00E+00	218 0.00E+00	278 0.00E+00

EOCR TEST 5 NRC STAB A 7/18/75 1007-1107 MST

GAS 5 AVERAGE WINDS: SPEED 9.0 M/S ;DIRECTION 247. DEGREES
SOURCE STRENGTH 0.0750 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M	
	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	3.96E-05	61	0.00E+00	181	0.00E+00
12.	2	6.90E-05	62	0.00E+00	182	0.00E+00
18.	3	9.95E-05	63	0.95E-06	183	0.00E+00
24.	4	2.28E-04	64	4.89E-05	184	0.00E+00
30.	5	6.78E-04	65	1.62E-04	185	0.00E+00
36.	6	7.05E-04	66	3.94E-04	186	0.00E+00
42.	7	1.03E-03	67	7.26E-04	187	5.25E-05
48.	8	1.12E-03	68	1.26E-03	188	0.82E-05
54.	9	0.00E+00	69	0.00E+00	189	1.33E-04
60.	10	2.15E-03	70	1.90E-03	190	1.86E-04
66.	11	0.00E+00	71	0.00E+00	191	1.37E-04
72.	12	2.12E-03	72	1.83E-03	192	1.61E-04
78.	13	2.30E-03	73	1.46E-03	193	0.17E-05
84.	14	0.00E+00	74	7.85E-04	194	2.84E-05
90.	15	0.00E+00	75	3.87E-04	195	6.78E-06
96.	16	4.48E-04	76	1.25E-04	196	0.00E+00
102.	17	3.70E-04	77	4.91E-05	197	0.00E+00
108.	18	2.68E-04	78	1.19E-05	198	0.00E+00
114.	19	2.00E-04	79	0.00E+00	199	0.00E+00
120.	20	1.58E-04	80	0.00E+00	200	0.00E+00
126.	21	1.13E-04	81	0.00E+00	201	0.00E+00
132.	22	5.04E-05	82	0.00E+00	202	0.00E+00
138.	23	3.44E-05	83	0.00E+00	203	0.00E+00
144.	24	8.12E-06	84	0.00E+00	204	0.00E+00

GAS F AVERAGE WINDS: SPEED 7.4 M/S ;DIRECTION 246. DEGREES
SOURCE STRENGTH 0.6696 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M	
	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	1.59E-03	61	0.00E+00	181	0.00E+00
12.	2	1.81E-03	62	0.00E+00	182	2.15E-05
18.	3	1.81E-03	63	1.35E-04	183	3.57E-05
24.	4	1.94E-03	64	3.47E-04	184	0.00E+00
30.	5	1.84E-03	65	4.38E-04	185	7.62E-05
36.	6	1.76E-03	66	4.91E-04	186	0.00E+00
42.	7	1.56E-03	67	4.40E-04	187	7.44E-05
48.	8	1.24E-03	68	5.60E-04	188	7.02E-05
54.	9	1.17E-03	69	6.49E-04	189	1.04E-04
60.	10	0.00E+00	70	0.00E+00	190	7.48E-05
66.	11	0.00E+00	71	0.00E+00	191	1.10E-04
72.	12	1.49E-03	72	1.00E-03	192	1.10E-04

EOCR TEST 5 NRC STAB A 7/18/75 1007-1107 MST

GAS F AVERAGE WINDS: SPEED 7.4 M/S ;DIRECTION 246. DEGREES
SOURCE STRENGTH 0.6696 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M	
	GLN	CONC	GLN	CONC	GLN	CONC
78.	13	1.52E-03	73	0.96E-04	193	6.18E-05
84.	14	0.00E+00	74	9.20E-04	194	9.70E-06
90.	15	0.00E+00	75	1.07E-03	195	3.05E-05
96.	16	2.37E-03	76	9.69E-04	196	4.39E-05
102.	17	2.52E-03	77	8.48E-04	197	8.00E-05
108.	18	2.88E-03	78	4.89E-04	198	1.11E-04
114.	19	3.03E-03	79	2.31E-04	199	2.84E-05
120.	20	3.91E-03	80	2.01E-05	200	0.00E+00
126.	21	3.71E-03	81	3.39E-04	201	0.00E+00
132.	22	5.39E-03	82	0.00E+00	202	0.00E+00
138.	23	5.73E-03	83	0.00E+00	203	0.00E+00
144.	24	6.97E-03	84	0.00E+00	204	0.00E+00
150.	25	6.03E-03	85	0.00E+00	205	0.00E+00
156.	26	4.71E-03	86	0.00E+00	206	0.00E+00
162.	27	4.90E-03	87	0.00E+00	207	0.00E+00
168.	28	2.94E-03	88	0.00E+00	208	0.00E+00
174.	29	1.71E-03	89	0.00E+00	209	0.00E+00
180.	30	0.80E-05	90	0.00E+00	210	0.00E+00
186.	31	2.95E-04	91	0.00E+00	211	0.00E+00
192.	32	7.31E-05	92	0.00E+00	212	0.00E+00
198.	33	5.46E-05	93	0.00E+00	213	0.00E+00
204.	34	5.58E-05	94	0.00E+00	214	0.00E+00
210.	35	2.07E-03	95	0.00E+00	215	0.00E+00
216.	36	5.34E-05	96	0.00E+00	216	0.00E+00
222.	37	4.81E-05	97	0.00E+00	217	0.00E+00
228.	38	6.28E-05	98	0.00E+00	218	0.00E+00
234.	39	2.47E-05	99	0.00E+00	219	0.00E+00
240.	40	7.36E-05	100	0.00E+00	220	0.00E+00
246.	41	7.36E-05	101	0.00E+00	221	0.00E+00
252.	42	8.51E-05	102	0.00E+00	222	0.00E+00
258.	43	7.41E-05	103	1.19E-04	223	4.36E-05
264.	44	0.00E+00	104	1.20E-04	224	5.55E-05
270.	45	0.00E+00	105	0.00E+00	225	4.18E-05
276.	46	1.81E-04	106	0.00E+00	226	2.54E-05
282.	47	2.03E-04	107	0.00E+00	227	0.00E+00
288.	48	6.90E-05	108	0.00E+00	228	0.00E+00
294.	49	1.72E-04	109	0.00E+00	229	0.00E+00
300.	50	1.47E-04	110	0.00E+00	230	0.00E+00
306.	51	3.02E-04	111	0.00E+00	231	0.00E+00
312.	52	4.26E-04	112	0.00E+00	232	0.00E+00
318.	53	7.10E-04	113	0.00E+00	233	0.00E+00
324.	54	9.42E-04	114	0.00E+00	234	0.00E+00
330.	55	1.41E-03	115	0.00E+00	235	0.00E+00
336.	56	1.28E-03	116	0.00E+00	236	0.00E+00
342.	57	1.19E-03	117	0.00E+00	237	0.00E+00
348.	58	1.19E-03	118	0.00E+00	238	0.00E+00

EOCR TEST 5 NRC STAB A 7/18/75 1007-1107 MST

GAS 8 AVERAGE WINDS: SPEED 8.8 M/S ;DIRECTION 247. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M	
	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	8.22E-05	63	0.00E+00	183	0.00E+00
24.	4	1.38E-04	64	0.00E+00	184	0.00E+00
30.	5	2.67E-04	65	7.62E-05	185	0.00E+00
36.	6	2.69E-04	66	1.67E-04	186	0.00E+00
42.	7	3.63E-04	67	2.22E-04	187	0.00E+00
48.	8	3.85E-04	68	3.78E-04	188	0.00E+00
54.	9	7.00E-04	69	5.54E-04	189	5.35E-05
60.	10	0.00E+00	70	0.00E+00	190	5.24E-05
66.	11	0.00E+00	71	0.00E+00	191	5.61E-05
72.	12	8.96E-04	72	6.73E-04	192	5.61E-05
78.	13	9.31E-04	73	4.58E-04	193	0.00E+00
84.	14	0.00E+00	74	2.56E-04	194	0.00E+00
90.	15	0.00E+00	75	1.85E-04	195	0.00E+00
96.	16	2.66E-04	76	6.49E-05	196	0.00E+00
102.	17	2.54E-04	77	2.77E-05	197	0.00E+00
108.	18	1.74E-04	78	0.00E+00	198	0.00E+00
114.	19	1.32E-04	79	0.00E+00	199	0.00E+00
120.	20	7.73E-05	80	0.00E+00	200	0.00E+00
126.	21	1.52E-04	81	0.00E+00	201	0.00E+00
132.	22	1.71E-05	82	0.00E+00	202	0.00E+00
138.	23	1.22E-05	83	0.00E+00	203	0.00E+00
144.	24	2.24E-05	84	0.00E+00	204	0.00E+00

EOCR TEST 6 NRC STAB D 7/21/75 0624-0724 MST

GAS 5 AVERAGE WINDS: SPEED 2.8 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1086 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
90.	15	0.60E-06	75	0.00E+00	195	0.00E+00	255	0.00E+00
96.	16	2.43E-06	76	0.00E+00	196	0.00E+00	256	0.00E+00
102.	17	3.89E-06	77	0.00E+00	197	0.00E+00	257	0.00E+00
108.	18	1.35E-05	78	0.00E+00	198	0.00E+00	258	0.00E+00
114.	19	2.91E-05	79	0.00E+00	199	0.00E+00	259	0.00E+00
120.	20	2.91E-05	80	0.00E+00	200	0.00E+00	260	0.00E+00
126.	21	3.39E-05	81	0.00E+00	201	0.00E+00	261	0.00E+00
132.	22	2.91E-05	82	0.00E+00	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	1.40E-06	203	0.00E+00	263	0.00E+00
144.	24	8.91E-05	84	0.00E+00	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	8.21E-06	205	0.00E+00	265	0.00E+00
156.	26	2.38E-04	86	2.55E-05	206	0.00E+00	266	0.00E+00
162.	27	2.45E-04	87	4.32E-05	207	0.00E+00	267	0.00E+00
168.	28	2.70E-04	88	2.70E-04	208	1.70E-05	268	0.00E+00
174.	29	3.21E-04	89	1.91E-04	209	4.77E-05	269	7.43E-05
180.	30	0.00E+00	90	0.00E+00	210	5.59E-05	270	1.28E-05
186.	31	2.36E-04	91	3.25E-04	211	6.52E-05	271	2.31E-05
192.	32	0.00E+00	92	2.16E-04	212	6.34E-05	272	2.26E-05
198.	33	0.00E+00	93	1.63E-04	213	3.75E-05	273	1.33E-05
204.	34	1.45E-04	94	1.08E-04	214	2.95E-05	274	1.65E-05
210.	35	0.00E+00	95	9.39E-05	215	2.38E-05	275	1.70E-05
216.	36	1.47E-04	96	0.00E+00	216	4.87E-05	276	1.44E-05
222.	37	1.36E-04	97	8.45E-05	217	0.00E+00	277	1.84E-05
228.	38	1.12E-04	98	8.17E-05	218	3.47E-05	278	1.36E-05
234.	39	8.99E-05	99	0.00E+00	219	2.80E-05	279	0.00E+00
240.	40	1.06E-04	100	9.23E-05	220	3.44E-05	280	1.27E-05
246.	41	1.02E-04	101	0.00E+00	221	2.80E-05	281	6.89E-06
252.	42	8.51E-05	102	9.40E-05	222	2.06E-05	282	1.29E-05
258.	43	7.41E-05	103	1.19E-04	223	4.36E-05	283	1.25E-05
264.	44	0.00E+00	104	1.08E-04	224	5.55E-05	284	1.44E-05
270.	45	0.00E+00	105	0.00E+00	225	4.18E-05	285	2.61E-05
276.	46	2.27E-05	106	4.46E-05	226	2.64E-05	286	2.34E-06
282.	47	8.55E-06	107	3.77E-05	227	0.00E+00	287	0.00E+00
288.	48	1.02E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
294.	49	6.89E-06	109	5.32E-06	229	1.40E-05	289	0.00E+00
300.	50	5.97E-06	110	1.45E-06	230	0.00E+00	290	0.00E+00
306.	51	1.09E-06	111	0.00E+00	231	0.00E+00	291	0.00E+00
342.	57	2.11E-06	117	0.00E+00	237	0.00E+00	297	0.00E+00

EOCR TEST 6 NRC STAB D 7/21/75 0624-0724 MST

GAS 5 AVERAGE WINDS: SPEED 2.8 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1086 GM/S RELEASED STACK

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	1.63E-04	630	0.00E+00	640	0.00E+00
7.5	611	4.09E-04	621	1.83E-04	631	0.00E+00	641	0.00E+00
15.0	612	4.34E-04	622	1.88E-04	632	0.00E+00	642	0.00E+00
23.0	613	5.91E-04	623	0.00E+00	633	0.00E+00	643	0.00E+00
30.5	614	0.00E+00	624	2.65E-04	634	0.00E+00	644	0.00E+00

TOWER 5

GAS F AVERAGE WINDS: SPEED 1.8 M/S ;DIRECTION 48. DEGREES
SOURCE STRENGTH 0.6178 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M	100. M	400. M	800. M
	GLN	CONC	GLN	CONC
6.	1	3.38E-05	61	1.44E-05
12.	2	9.72E-06	62	0.00E+00
30.	5	2.46E-05	65	0.00E+00
48.	8	3.80E-06	68	0.00E+00
54.	9	8.90E-06	69	0.00E+00
60.	10	5.69E-06	70	0.00E+00
72.	12	3.82E-06	72	0.00E+00
96.	16	1.53E-05	76	0.00E+00
114.	19	6.49E-06	79	0.00E+00
126.	21	1.72E-05	81	0.00E+00
132.	22	5.17E-05	82	0.00E+00
138.	23	0.00E+00	83	4.82E-04
144.	24	1.18E-04	84	1.00E-05
150.	25	0.00E+00	85	4.57E-05
156.	26	2.63E-04	86	0.00E+00
162.	27	3.84E-04	87	5.57E-05
168.	28	4.96E-04	88	1.35E-04
174.	29	1.06E-03	89	1.58E-04
180.	30	0.00E+00	90	0.00E+00
186.	31	1.53E-03	91	3.48E-04
192.	32	0.00E+00	92	4.58E-04
198.	33	0.00E+00	93	4.22E-04
204.	34	2.75E-03	94	3.18E-04

EOCR TEST 6 NRC STAB D 7/21/75 0624-0724 MST

GAS F AVERAGE WINDS: SPEED 1.8 M/S ;DIRECTION 48. DEGREES
SOURCE STRENGTH 0.6178 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M	100. M	400. M	800. M
	GLN	CONC	GLN	CONC
210.	35	0.00E+00	95	2.57E-04
216.	36	3.18E-03	96	0.00E+00
222.	37	2.92E-03	97	2.65E-04
228.	38	2.34E-03	98	2.49E-04
234.	39	1.39E-03	99	0.00E+00
240.	40	9.02E-04	100	2.00E-04
246.	41	5.26E-04	101	1.64E-04
252.	42	3.78E-04	102	1.64E-04
258.	43	2.53E-04	103	2.07E-04
264.	44	0.00E+00	104	2.32E-04
270.	45	0.00E+00	105	0.00E+00
276.	46	1.34E-04	106	1.42E-04
282.	47	1.04E-04	107	6.95E-05
288.	48	1.23E-04	108	0.00E+00
294.	49	3.76E-05	109	2.06E-04
300.	50	7.88E-05	110	2.23E-05
306.	51	4.70E-06	111	2.27E-05
312.	52	6.35E-06	112	0.00E+00
318.	53	0.00E+00	113	1.15E-05
324.	54	1.11E-05	114	1.31E-05
330.	55	1.99E-05	115	1.15E-05
336.	56	3.91E-05	116	0.00E+00
342.	57	0.00E+00	117	0.00E+00
348.	58	0.00E+00	118	1.71E-05
354.	59	0.00E+00	119	8.42E-06
360.	60	0.00E+00	120	1.71E-06

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	4.22E-04	630	0.00E+00	640	0.00E+00
7.5	611	2.65E-04	621	3.52E-04	631	0.00E+00	641	0.00E+00
15.0	612	2.44E-04	622	3.44E-04	632	0.00E+00	642	0.00E+00
23.0	613	1.97E-04	623	0.00E+00	633	0.00E+00	643	0.00E+00
30.5	614	0.00E+00	624	2.89E-04	634	0.00E+00	644	0.00E+00

TOWER 5

GAS F AVERAGE WINDS: SPEED 1.8 M/S ;DIRECTION 48. DEGREES
SOURCE STRENGTH 0.6178 GM/S RELEASED GROUND

TOWER 6

GAS F AVERAGE WINDS: SPEED 1.8 M/S ;DIRECTION 48. DEGREES
SOURCE STRENGTH 0.6178 GM/S RELEASED GROUND

EOCR TEST 6 NRC STAB D 7/21/75 0624-0724 MST

GAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M	100. M	400. M	800. M
	GLN	CONC	GLN	CONC
42.	7	1.54E-03	67	0.00E+00
48.	8	1.32E-04	68	0.00E+00
96.	16	2.25E-03	76	0.00E+00
132.	22	8.81E-06	82	0.00E+00
138.	23	0.00E+00	83	3.76E-04
144.	24	3.24E-05	84	0.00E+00
156.	26	1.55E-04	86	7.08E-06
162.	27	1.65E-04	87	2.07E-05
168.	28	2.40E-04	88	7.96E-05
174.	29	2.62E-04	89	1.00E-04
180.	30	0.00E+00	90	0.00E+00
186.	31	3.07E-04	91	1.63E-04
192.	32	0.00E+00	92	1.27E-04
198.	33	0.00E+00	93	1.20E-04
204.	34	1.76E-04	94	0.30E-05
210.	35	0.00E+00	95	6.51E-05
216.	36	1.48E-04	96	0.00E+00
222.	37	1.27E-04	97	5.11E-05
228.	38	1.19E-04	98	3.24E-05
234.	39	9.70E-05	99	0.00E+00
240.	40	1.20E-04	100	5.13E-05
246.	41	1.25E-04	101	0.00E+00
252.	42	1.11E-04	102	6.10E-05
258.	43	9.13E-05	103	7.81E-05
264.	44	0.00E+00	104	4.67E-05
270.	45	0.00E+00	105	0.00E+00
276.	46	3.01E-05	106	3.82E-05
282.	47	2.52E-06	107	2.43E-05
288.	48	1.12E-05	108	0.00E+00
294.	49	6.02E-06	109	1.27E-04
300.	50	2.04E-05	110	0.00E+00
306.	51	7.02E-06	111	0.00E+00
312.	52	5.29E-07	112	0.00E+00
336.	56	3.02E-04	116	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	1.20E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.77E-04	621	1.41E-04	631	0.00E+00	641	0.00E+00
15.0	612	1.56E-04	622	1.54E-04	632	0.00E+00	642	0.00E+00
23.0	613	1.47E-04	623	0.00E+00	633	0.00E+00	643	0.00E+00

EOCR TEST 6 NRC STAB D 7/21/75 0624-0724 MST

GAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOF

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
30.5	614	0.00E+00	624	1.50E-04	634	0.00E+00	644	0.00E+00

GAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
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SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOFGAS 8 AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1346 GM/S RELEASED ROOF

EOCR TEST 7 NRC STAB G 7/22/75 0543-0630 MST

GAS S AVERAGE WINDS: SPEED 0.7 M/S ; DIRECTION 0. DEGREES
SOURCE STRENGTH 0.0898 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES									
BEARING	50. M		100. M		400. M		800. M		
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
6.	1	0.86E-06	61	5.01E-06	181	0.00E+00	241	0.00E+00	
12.	2	5.05E-06	62	1.74E-06	182	0.00E+00	242	0.00E+00	
18.	3	7.79E-06	63	1.58E-06	183	0.00E+00	243	0.00E+00	
24.	4	1.40E-06	64	0.00E+00	184	0.00E+00	244	0.00E+00	
30.	5	8.95E-06	65	0.00E+00	185	0.00E+00	245	0.00E+00	
36.	6	1.72E-05	66	5.63E-07	186	0.00E+00	246	0.00E+00	
42.	7	5.56E-05	67	1.14E-06	187	0.00E+00	247	0.00E+00	
48.	8	1.79E-05	68	1.13E-06	188	0.00E+00	248	0.00E+00	
54.	9	1.24E-04	69	1.29E-06	189	0.00E+00	249	0.00E+00	
60.	10	0.00E+00	70	2.04E-06	190	0.00E+00	250	0.00E+00	
66.	11	2.21E-04	71	6.63E-06	191	0.00E+00	251	0.00E+00	
72.	12	0.00E+00	72	2.53E-05	192	0.00E+00	252	0.00E+00	
78.	13	2.87E-04	73	6.51E-05	193	0.00E+00	253	0.00E+00	
84.	14	2.37E-04	74	1.15E-04	194	0.00E+00	254	0.00E+00	
90.	15	4.91E-05	75	9.45E-05	195	0.00E+00	255	0.00E+00	
96.	16	3.94E-04	76	4.53E-05	196	0.00E+00	256	0.00E+00	
102.	17	1.74E-04	77	2.61E-05	197	0.00E+00	257	0.00E+00	
108.	18	0.00E+00	78	4.18E-05	198	0.00E+00	258	0.00E+00	
114.	19	1.08E-04	79	5.04E-05	199	0.00E+00	259	0.00E+00	
120.	20	0.00E+00	80	7.34E-05	200	0.00E+00	260	0.00E+00	
126.	21	1.09E-04	81	0.00E+00	201	0.00E+00	261	0.00E+00	
132.	22	6.56E-05	82	5.40E-05	202	3.45E-06	262	1.08E-06	
138.	23	2.10E-05	83	1.05E-06	203	6.15E-06	263	0.00E+00	
144.	24	7.21E-06	84	1.91E-06	204	6.31E-07	264	0.00E+00	
150.	25	1.60E-06	85	1.09E-06	205	3.54E-07	265	0.00E+00	
156.	26	2.98E-06	86	7.80E-07	206	3.87E-07	266	0.00E+00	
162.	27	1.56E-06	87	0.00E+00	207	2.36E-07	267	0.00E+00	
168.	28	0.00E+00	88	0.00E+00	208	3.93E-07	268	0.00E+00	
174.	29	7.55E-07	89	0.00E+00	209	5.94E-07	269	0.00E+00	
180.	30	6.74E-07	90	0.00E+00	210	4.33E-07	270	0.00E+00	
186.	31	0.00E+00	91	0.00E+00	211	0.00E+00	271	0.00E+00	
192.	32	0.00E+00	92	0.00E+00	212	0.00E+00	272	0.00E+00	
198.	33	9.91E-07	93	0.00E+00	213	0.00E+00	273	0.00E+00	
204.	34	0.00E+00	94	0.00E+00	214	0.00E+00	274	0.00E+00	
210.	35	5.10E-07	95	0.00E+00	215	0.00E+00	275	0.00E+00	
216.	36	7.49E-07	96	0.00E+00	216	0.00E+00	276	0.00E+00	
222.	37	2.57E-07	97	0.00E+00	217	0.00E+00	277	0.00E+00	
228.	38	2.19E-06	98	0.00E+00	218	0.00E+00	278	0.00E+00	
234.	39	0.00E+00	99	0.00E+00	219	0.00E+00	279	0.00E+00	
240.	40	2.94E-06	100	0.00E+00	220	0.00E+00	280	0.00E+00	
246.	41	2.84E-06	101	0.00E+00	221	0.00E+00	281	0.00E+00	
252.	42	1.66E-06	102	0.00E+00	222	0.00E+00	282	0.00E+00	
258.	43	6.55E-06	103	0.00E+00	223	0.00E+00	283	0.00E+00	
264.	44	9.03E-06	104	0.00E+00	224	0.00E+00	284	0.00E+00	
270.	45	1.16E-05	105	2.74E-07	225	0.00E+00	285	0.00E+00	
276.	46	1.64E-05	106	5.06E-06	226	0.00E+00	286	0.00E+00	

EOCR TEST 7 NRC STAB G 7/22/75 0543-0630 MST

GAS S AVERAGE WINDS: SPEED 0.7 M/S ; DIRECTION 0. DEGREES
SOURCE STRENGTH 0.0898 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES									
BEARING	50. M		100. M		400. M		800. M		
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
282.	47	2.11E-05	107	6.60E-06	227	0.00E+00	287	1.18E-06	
288.	48	0.00E+00	108	0.00E+00	228	1.55E-06	288	1.15E-06	
294.	49	1.98E-05	109	1.49E-05	229	3.18E-06	289	0.00E+00	
300.	50	0.00E+00	110	1.70E-05	230	5.27E-06	290	3.29E-06	
306.	51	1.35E-05	111	9.74E-06	231	8.36E-06	291	3.87E-06	
312.	52	1.15E-05	112	7.33E-06	232	0.00E+00	292	0.00E+00	
318.	53	0.13E-06	113	8.77E-06	233	0.00E+00	293	0.00E+00	
324.	54	9.03E-06	114	9.79E-06	234	0.00E+00	294	0.00E+00	
330.	55	9.04E-06	115	5.90E-06	235	0.00E+00	295	0.00E+00	
336.	56	1.32E-05	116	6.13E-06	236	0.00E+00	296	0.00E+00	
342.	57	0.00E+00	117	3.06E-06	237	0.00E+00	297	0.00E+00	
348.	58	1.62E-05	118	5.76E-06	238	0.00E+00	298	0.00E+00	
354.	59	1.27E-05	119	7.91E-06	239	0.00E+00	299	0.00E+00	
360.	60	7.80E-06	120	8.62E-06	240	0.00E+00	300	0.00E+00	

TOWER SAMPLES									
HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4		
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
0.5	610	3.62E-07	620	3.86E-07	630	0.00E+00	640	0.00E+00	
7.5	611	1.04E-06	621	1.76E-06	631	9.12E-07	641	2.06E-06	
15.0	612	1.70E-05	622	4.34E-07	632	0.68E-07	642	2.06E-06	
23.0	613	3.07E-05	623	7.32E-06	633	5.33E-06	643	1.99E-06	
30.5	614	0.00E+00	624	0.00E+00	634	0.00E+00	644	3.38E-06	

TOWER 5									
HEIGHT	TOWER 5		TOWER 6						
	GLN	CONC	GLN	CONC					
0.5	650	6.19E-07	660	0.00E+00					
7.5	651	0.00E+00	661	4.43E-07					
23.0	653	0.00E+00	663	2.26E-06					

GAS F AVERAGE WINDS: SPEED 0.5 M/S ; DIRECTION 0. DEGREES
SOURCE STRENGTH 0.6233 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES									
BEARING	50. M		100. M		400. M		800. M		
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
6.	1	4.77E-04	61	1.79E-05	181	0.00E+00	241	0.00E+00	
12.	2	2.24E-04	62	3.19E-06	182	0.00E+00	242	0.00E+00	
18.	3	2.84E-04	63	6.84E-06	183	0.00E+00	243	0.00E+00	
24.	4	1.41E-04	64	0.00E+00	184	0.00E+00	244	0.00E+00	
30.	5	1.34E-03	65	0.00E+00	185	0.00E+00	245	0.00E+00	
36.	6	1.87E-03	66	4.34E-06	186	0.00E+00	246	0.00E+00	

EOCR TEST 7 NRC STAB G 7/22/75 0543-0630 MST

GAS F AVERAGE WINDS: SPEED 0.5 M/S ; DIRECTION 0. DEGREES
SOURCE STRENGTH 0.6233 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES									
BEARING	50. M		100. M		400. M		800. M		
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
42.7		7.244E-03	67	1.31E-05	187	0.00E+00	247	0.00E+00	
48.8		9.51E-04	68	1.91E-05	188	0.00E+00	248	0.00E+00	
54.9		2.04E-03	69	1.91E-05	189	0.00E+00	249	0.00E+00	
60.10		0.00E+00	70	1.90E-05	190	0.00E+00	250	0.00E+00	
66.11		1.73E-03	71	3.92E-05	191	0.00E+00	251	0.00E+00	
72.12		0.00E+00	72	1.31E-04	192	0.00E+00	252	0.00E+00	
78.13		1.89E-03	73	2.35E-04	193	0.00E+00	253	0.00E+00	
84.14		1.95E-03	74	1.37E-04	194	0.00E+00	254	0.00E+00	
90.15		1.93E-04	75	1.20E-04	195	0.00E+00	255	0.00E+00	
96.16		7.98E-04	76	1.27E-04	196	0.00E+00	256	0.00E+00	
102.17		2.77E-04	77	1.32E-04	197	0.00E+00	257	0.00E+00	
108.18		0.00E+00	78	2.00E-04	198	0.00E+00	258	0.00E+00	
114.19		1.27E-04	79	2.00E-04	199	0.00E+00	259	0.00E+00	
120.20		0.00E+00	80	1.21E-04	200	0.00E+00	260	0.00E+00	
126.21		3.57E-05	81	0.00E+00	201	0.00E+00	261	0.00E+00	
132.22		2.92E-05	82	2.01E-05	202	0.00E+00	262	1.19E-06	
138.23		3.57E-06	83	0.00E+00	203	0.00E+00	263	2.26E-06	
144.24		2.84E-06	84	0.00E+00	204	4.11E-07	264	4.17E-07	
150.25		0.00E+00	85	0.00E+00	205	0.00E+00	265	1.25E-06	
156.26		0.00E+00	86	0.00E+00	206	0.00E+00	266	2.35E-06	
162.27		1.38E-06	87	0.00E+00	207	0.00E+00	267	2.45E-06	
168.28		0.00E+00	88	0.00E+00	208	0.00E+00	268	1.55E-07	
174.29		0.00E+00	89	6.43E-07	209	0.00E+00	269	1.45E-07	
180.30		1.10E-06	90	0.00E+00	210	0.00E+00	270	7.31E-07	
186.31		0.00E+00	91	0.00E+00	211	3.05E-06	271	4.77E-06	
192.32		0.00E+00	92	0.00E+00	212	1.54E-06	272	0.00E+00	
198.33		4.36E-06	93	0.00E+00	213	3.44E-06	273	5.64E-05	
210.35		2.82E-06	95	0.00E+00	215	0.00E+00	275	4.10E-06	
218.38		2.11E-06	98	0.00E+00	218	0.00E+00	278	6.81E-06	
234.39		0.00E+00	99	0.00E+00	219	0.00E+00	279	3.30E-06	
240.40		3.70E-06	100	0.00E+00	220	0.00E+00	280	3.77E-05	
246.41		2.93E-06	101	0.00E+00	221	0.00E+00	281	1.10E-05	
252.42		9.97E-06	102	0.00E+00	222	0.00E+00	282	3.35E-05	
258.43		7.81E-06	103	4.32E-07	223	0.00E+00	283	0.00E+00	
264.44		1.59E-05	104	0.00E+00	224	0.00E+00	284	0.00E+00	
270.45		1.30E-05	105	0.00E+00	225	0.00E+00	285	6.75E-06	
276.46		2.48E-05	106	2.31E-06	226	3.97E-06	286	1.30E-06	
282.47		2.76E-05	107	2.93E-06	227	0.00E+00	287	0.00E+00	
288.48		0.00E+00	108	0.00E+00	228	0.00E+00	288	1.07E-06	
294.49		1.55E-04	109	1.28E-05	229	0.00E+00	289	0.00E+00	
300.50		0.00E+00	110	3.94E-05	230	0.00E+00	290	0.00E+00	
306.51		3.10E-04	111	3.51E-05	231	0.00E+00	291	0.00E+00	
312.52		3.66E-04	112	2.15E-05	232	0.00E+00	292	0.00E+00	
318.53		7.76E-04	113	3.47E-05	233	0.00E+00	293	0.00E+00	

EOCR TEST 7 NRC STAB G 7/22/75 0543-0630 MST

GAS B AVERAGE WINDS: SPEED 0.6 M/S ; DIRECTION 0. DEGREES
SOURCE STRENGTH 0.1393 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
102.	17	2.53E-04	77	3.03E-05	197	0.00E+00	257	0.00E+00
108.	18	0.00E+00	78	4.05E-05	199	0.00E+00	259	0.00E+00
114.	19	2.45E-04	79	4.10E-05	199	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	5.20E-05	200	0.00E+00	260	0.00E+00
126.	21	1.12E-04	81	0.00E+00	201	0.00E+00	261	0.00E+00
132.	22	7.70E-05	82	2.71E-05	202	2.74E-06	262	1.98E-06
138.	23	2.93E-05	83	1.03E-06	203	0.00E+00	263	3.60E-06
150.	25	1.19E-05	85	3.46E-06	205	1.40E-06	265	2.00E-06
156.	26	3.20E-06	86	6.91E-07	206	5.01E-07	266	0.00E+00
162.	27	4.71E-06	87	0.00E+00	207	0.00E+00	267	3.25E-06
168.	28	2.45E-06	88	0.00E+00	208	0.00E+00	268	4.55E-06
174.	29	0.00E+00	89	4.70E-06	209	4.99E-06	269	0.00E+00
180.	30	0.00E+00	90	0.00E+00	210	3.70E-06	270	7.50E-07
186.	31	0.00E+00	91	3.64E-06	211	1.65E-05	271	2.15E-05
192.	32	0.00E+00	92	0.00E+00	212	1.72E-06	272	0.00E+00
198.	33	5.13E-06	93	0.00E+00	213	1.63E-05	273	8.71E-07
204.	34	0.00E+00	94	0.00E+00	214	2.52E-06	274	1.23E-05
216.	36	0.00E+00	96	0.00E+00	216	0.00E+00	276	1.32E-04
220.	38	2.37E-06	98	0.00E+00	218	0.00E+00	278	3.57E-06
240.	40	2.93E-06	100	0.00E+00	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	0.00E+00	221	0.00E+00	281	2.99E-06
252.	42	1.46E-05	102	0.00E+00	222	0.00E+00	282	2.91E-05
258.	43	9.35E-06	103	0.00E+00	223	0.00E+00	283	0.00E+00
264.	44	1.33E-05	104	0.00E+00	224	0.00E+00	284	0.00E+00
270.	45	1.80E-05	105	0.00E+00	225	0.00E+00	285	2.79E-06
276.	46	3.29E-05	106	2.91E-05	226	1.41E-05	286	0.00E+00
282.	47	4.16E-05	107	6.96E-06	227	0.00E+00	287	3.47E-05
288.	48	0.00E+00	109	0.00E+00	229	0.00E+00	289	1.71E-05
294.	49	2.66E-05	109	1.25E-05	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	1.13E-05	230	0.00E+00	290	0.00E+00
306.	51	1.55E-05	111	3.09E-06	231	1.76E-05	291	1.56E-06
312.	52	1.29E-05	112	3.54E-06	232	0.00E+00	292	0.00E+00
318.	53	8.74E-06	113	1.08E-05	233	0.00E+00	293	0.00E+00
324.	54	7.67E-06	114	7.75E-06	234	0.00E+00	294	0.00E+00
330.	55	4.33E-06	115	1.32E-06	235	0.00E+00	295	0.00E+00
336.	56	1.26E-05	116	4.76E-06	236	0.00E+00	296	0.00E+00
342.	58	9.20E-06	118	4.27E-06	238	0.00E+00	298	0.00E+00
354.	59	9.80E-06	119	1.71E-06	239	0.00E+00	299	0.00E+00
360.	60	0.00E+00	120	7.84E-06	240	0.00E+00	300	0.00E+00

EOCR TEST 7 NRC STAB G 7/22/75 0543-0630 MST

GAS B AVERAGE WINDS: SPEED 0.6 M/S ; DIRECTION 0. DEGREES
SOURCE STRENGTH 0.1393 GM/S RELEASED ROOF

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
7.5	611	6.76E-07	621	4.74E-06	631	0.00E+00	641	0.00E+00
15.0	612	7.61E-06	622	2.02E-05	632	0.00E+00	642	0.00E+00
23.0	613	2.06E-06	623	2.62E-06	633	0.00E+00	643	1.93E-06
30.5	614	0.00E+00	624	0.00E+00	634	3.96E-06	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	3.70E-06	660	1.63E-05				
7.5	651	0.00E+00	661	6.15E-07				

EOCR TEST 8 NRC STAB F 7/24/78 0348-0417 MST

GAS S AVERAGE WINDS: SPEED 1.0 M/S ; DIRECTION 345. DEGREES
SOURCE STRENGTH 0.0933 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
30.	5	5.36E-06	65	0.00E+00	185	0.00E+00	245	0.00E+00
36.	6	1.47E-05	66	0.00E+00	186	0.00E+00	246	0.00E+00
42.	7	4.09E-05	67	0.00E+00	187	0.00E+00	247	0.00E+00
48.	8	6.09E-05	68	0.00E+00	188	0.00E+00	248	0.00E+00
54.	9	8.61E-05	69	1.39E-06	189	0.00E+00	249	0.00E+00
60.	10	7.95E-05	70	3.24E-06	190	0.00E+00	250	0.00E+00
66.	11	1.51E-04	71	2.85E-06	191	0.00E+00	251	0.00E+00
72.	12	1.79E-04	72	2.56E-05	192	0.00E+00	252	0.00E+00
78.	13	1.16E-04	73	6.52E-05	193	0.00E+00	253	0.00E+00
84.	14	2.00E-04	74	0.00E+00	194	0.00E+00	254	0.00E+00
90.	15	1.85E-04	75	2.40E-04	195	0.00E+00	255	0.00E+00
96.	16	1.94E-04	76	2.10E-04	196	0.00E+00	256	0.00E+00
102.	17	1.41E-04	77	0.00E+00	197	0.00E+00	257	0.00E+00
108.	18	1.10E-04	78	0.00E+00	198	0.00E+00	258	0.00E+00
114.	19	9.37E-05	79	0.00E+00	199	0.00E+00	259	0.00E+00
120.	20	1.22E-04	80	2.59E-05	200	0.00E+00	260	0.00E+00
126.	21	7.79E-05	81	6.82E-06	201	0.00E+00	261	0.00E+00
132.	22	8.45E-05	82	3.71E-06	202	1.47E-05	262	2.00E-06
138.	23	7.47E-05	83	2.29E-05	203	1.30E-05	263	0.00E+00
144.	24	7.17E-05	84	3.13E-05	204	0.00E+00	264	0.00E+00
150.	25	7.72E-05	85	9.76E-06	205	5.84E-06	265	2.15E-06
156.	26	7.68E-05	86	4.75E-05	206	4.42E-06	266	1.19E-06
162.	27	7.25E-05	87	8.31E-05	207	1.65E-06	267	0.00E+00
168.	28	6.01E-05	88	8.52E-05	208	0.00E+00	268	0.00E+00
174.	29	6.95E-05	89	3.25E-05	209	9.31E-07	269	0.00E+00
180.	30	3.90E-05	90	0.00E+00	210	0.00E+00	270	0.00E+00
186.	31	0.00E+00	91	0.00E+00	211	1.33E-06	271	0.00E+00
192.	32	6.14E-06	92	0.00E+00	212	0.00E+00	272	0.00E+00
198.	33	0.00E+00	93	2.98E-06	213	0.00E+00	273	0.00E+00
204.	34	3.64E-06	94	0.00E+00	214	0.00E+00	274	0.00E+00
210.	35	1.34E-06	95	0.00E+00	215	0.00E+00	275	0.00E+00
216.	36	0.00E+00	96	0.00E+00	216	0.00E+00	276	0.00E+00
222.	37	0.00E+00	97	0.00E+00	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	0.00E+00	218	0.00E+00	278	0.00E+00
234.	39	0.00E+00	99	0.00E+00	219	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	0.00E+00	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	0.00E+00	221	0.00E+00	281	0.00E+00
252.	42	0.00E+00	102	0.00E+00	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	0.00E+00	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	0.00E+00	224	0.00E+00	284	0.00E+00
270.	45	0.00E+00	105	0.00E+00	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	0.00E+00	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	0.00E+00	227	0.00E+00	287	0.00E+00
288.	48	0.00E+00	108	0.00E+00	228	0.00E+00	288	0.00E+00
294.	49	0.00E+00	109	0.00E+00	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	0.00E+00	230	0.00E+00	290	0.00E+00
306.	51	0.00E+00	111	0.00E+00	231	0.00E+00	291	0.00E+00
312.	52	0.00E+00	112	0.00E+00	232	0.00E+00	292	0.00E+00
318.	53	0.00E+00	113	0.00E+00	233	0.00E+00	293	0.00E+00
324.	54	0.00E+00	114	0.00E+00	234	0.00E+00	294	0.00E+00
330.	55	0.00E+00	115	0.00E+00	235	0.00E+00	295	0.00E+00
336.	56	0.00E+00	116	0.00E+00	236	0.00E+00	296	0.00E+00
342.	57	0.00E+00	117	0.00E+00	237	0.00E+00	297	0.00E+00
348.	58	0.00E+00	118	0.00E+00	238	0.00E+00	298	0.00E+00
354.	59	0.00E+00	119	0.00E+00	239	0.00E+00	299	0.00E+00
360.	60	0.00E+00	120	0.00E+00	240	0.00E+00	300	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	2.98E-05	630	0.00E+00	640	0.00E+00
7.5	611	0.00E+00	621	5.51E-06	631	1.91E-04	641	0.00E+00
15.0	612	0.00E+00	622	1.64E-05	632	1.69E-04	642	0.00E+00
23.0	613	0.00E+00	623	1.39E-05	633	1.47E-04	643	0.00E+00
30.5	614	0.00E+00	624	1.95E-05	634	4.46E-06	644	0.00E+00

EOCR TEST 8 NRC STAB F 7/24/78 0348-0417 MST

GAS S AVERAGE WINDS: SPEED 1.0 M/S ; DIRECTION 345. DEGREES
SOURCE STRENGTH 0.0933 GM/S RELEASED STACK

TOWER SAMPLES

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
7.5	651	5.57E-05	661	0.00E+00
15.0	652	8.18E-05	662	2.22E-06
23.0	653	7.24E-05	663	6.67E-06
30.5	654	6.69E-05	664	0.00E+00

GAS F AVERAGE WINDS: SPEED 0.9 M/S ; DIRECTION 305. DEGREES
SOURCE STRENGTH 0.6269 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	5.64E-06	61	0.00E+00	181	0.00E+00	241	0.00E+00
12.	2	1.15E-06	62	0.00E+00	182	0.00E+00	242	0.00E+00
18.	3	6.22E-06	63	5.33E-06	183	0.00E+00	243	0.00E+00
24.	4	7.76E-05	64	8.96E-06	184	0.00E+00	244	0.00E+00
30.	5	1.72E-03	65	2.66E-05	185	0.00E+00	245	0.00E+00
36.	6	3.78E-03	66	4.68E-06	186	0.00E+00	246	0.00E+00
42.	7	4.94E-03	67	1.01E-05	187	0.00E+00	247	0.00E+00
48.	8	4.07E-03	68	6.09E-06	188	0.00E+00	248	0.00E+00
54.	9	5.06E-03	69	5.72E-05	189	0.00E+00	249	0.00E+00
60.	10	4.39E-03	70	7.90E-05	190	0.00E+00	250	0.00E+00
66.	11	4.36E-03	71	3.41E-05	191	0.00E+00	251	0.00E+00
72.	12	5.15E-03	72	3.97E-04	192	0.00E+00	252	0.00E+00
78.	13	3.91E-03	73	5.83E-04	193	0.00E+00	253	0.00E+00
84.	14	4.12E-03	74	0.00E+00	194	0.00E+00	254	0.00E+00
90.	15	9.00E-04	75	4.36E-04	195	0.00E+00	255	0.00E+00
96.	16	4.00E-04	76	2.92E-04	196	0.00E+00	256	0.00E+00
102.	17	4.07E-04	77	0.00E+00	197	0.00E+00	257	0.00E+00
108.	18	1.93E-04	78	0.00E+00	198	0.00E+00	258	0.00E+00
114.	19	3.18E-04	79	0.00E+00	199	0.00E+00	259	0.00E+00
120.	20	3.52E-04	80	1.06E-04	200	0.00E+00	260	0.00E+00
126.	21	2.72E-04	81	1.44E-04	201	0.00E+00	261	0.00E+00
132.	22	1.63E-04	82	1.59E-04	202	3.82E-05	262	0.00E+00
138.	23	7.78E-05	83	2.72E-04	203	2.84E-05	263	0.00E+00
144.	24	6.39E-05	84	3.63E-04	204	1.54E-05	264	0.00E+00
150.	25	1.88E-05	85	6.02E-05	205	3.99E-05	265	3.18E-06
156.	26	5.47E-06	86	1.39E-04	206	1.55E-05	266	0.00E+00
162.	27	1.13E-05	87	6.23E-05	207	0.00E+00	267	0.00E+00
168.	28	4.19E-06	88	1.88E-05	208	1.21E-05	268	0.00E+00
174.	29	6.52E-06	89	6.29E-06	209	2.71E-06	269	0.00E+00
180.	30	1.59E-06	90	0.00E+00	210	1.91E-05	270	4.85E-06
186.	31	0.00E+00	91	1.38E-05	211	0.00E+00	271	5.57E-06

EOCR TEST 8 NRC STAB F 7/24/78 0348-0417 MST

GAS F AVERAGE WINDS: SPEED 0.9 M/S ; DIRECTION 305. DEGREES
SOURCE STRENGTH 0.6269 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
192.	32	1.20E-05	92	0.00E+00	212	1.54E-05	272	0.00E+00
198.	33	0.00E+00	93	1.29E-05	213	1.81E-06	273	2.89E-05
204.	34	0.00E+00	94	7.95E-06	214	7.83E-06	274	6.76E-06
210.	35	0.00E+00	95	1.40E-05	215	2.92E-06	275	5.75E-06
216.	36	1.02E-05	96	0.00E+00	216	2.25E-05	276	1.09E-05
222.	37	6.39E-06	97	8.52E-06	217	9.95E-06	277	0.00E+00
228.	38	0.00E+00	98	0.00E+00	218	8.53E-06	278	5.65E-06
234.	39	3.07E-06	99	2.16E-05	219	6.74E-06	279	0.00E+00
240.	40	9.33E-06	100	7.65E-06	220	3.62E-06	280	1.41E-05
246.	41	9.53E-06	101	8.99E-06	221	0.00E+00	281	1.56E-05
252.	42	2.52E-05	102	6.00E-06	222	0.00E+00	282	0.00E+00
258.	43	1.41E-05	103	4.03E-03	223	0.00E+00	283	0.00E+00
264.	44	2.49E-05	104	5.07E-06	224	0.00E+00	284	0.00E+00
270.	45	1.26E-05	105	0.00E+00	225	0.00E+00	285	0.00E+00
276.	46	2.37E-05	106	0.00E+00	226	0.00E+00	286	0.00E+00
282.	47	2.34E-06	107	9.11E-06	227	0.00E+00	287	0.00E+00
288.	48	6.51E-06	108	7.04E-06	228	0.00E+00	288	0.00E+00
294.	49	4.85E-06	109	3.82E-05	229	0.00E+00	289	0.00E+00
300.	50	1.79E-05	110	7.52E-06	230	0.00E+00	290	0.00E+00
306.	51	5.52E-06	111	1.31E-05	231	0.00E+00	291	0.00E+00
312.	52	7.07E-06	112	6.95E-06	232	0.00E+00	292	0.00E+00
318.	53	1.39E-05	114	1.31E-05	234	0.00E+00	294	0.00E+00
330.	55	1.16E-05	115	4.50E-06	235	0.00E+00	295	0.00E+00
336.	56	0.00E+00	116	2.34E-05	236	0.00E+00	296	0.00E+00
342.	57	1.51E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
348.	58	0.00E+00	118	1.60E-05	238	0.00E+00	298	0.00E+00
354.	59	0.00E+00	119	8.11E-06	239	0.00E+00	299	0.00E+00
360.	60	3.85E-06	120	0.00E+00	240	0.00E+00	300	0.00E+00

EDCR TEST 8 NRC STAB F 7/24/78 0348-0417 MST

GAS 8 AVERAGE WINDS: SPEED 1.8 M/S ; DIRECTION 345. DEGREES
SOURCE STRENGTH 0.1354 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
198.	33	0.00E+00	93	5.53E-05	213	6.95E-06	273	2.24E-05
204.	34	3.43E-03	94	3.21E-03	214	1.24E-05	274	0.00E+00
210.	35	0.00E+00	95	3.17E-05	215	5.25E-05	275	4.70E-04
216.	36	1.22E-05	96	7.27E-04	216	4.23E-05	276	2.05E-05
222.	37	2.62E-03	97	2.33E-05	217	0.00E+00	277	4.49E-05
228.	38	0.00E+00	98	0.00E+00	218	1.56E-05	278	1.42E-04
234.	39	0.00E+00	99	3.77E-05	219	0.00E+00	279	0.00E+00
240.	40	4.81E-05	100	1.17E-03	220	1.58E-04	280	7.86E-05
246.	41	0.00E+00	101	4.69E-06	221	0.00E+00	281	0.00E+00
252.	42	1.73E-05	102	9.04E-04	222	0.00E+00	282	0.00E+00
258.	43	4.01E-05	103	0.00E+00	223	0.00E+00	283	0.00E+00
264.	44	5.30E-06	104	1.15E-04	224	0.00E+00	284	0.00E+00
270.	45	1.96E-04	105	0.00E+00	225	0.00E+00	285	0.00E+00
276.	46	2.15E-03	106	0.00E+00	226	0.00E+00	286	0.00E+00
282.	47	1.83E-05	107	5.88E-04	227	0.00E+00	287	0.00E+00
288.	48	3.91E-03	108	3.09E-04	228	0.00E+00	288	0.00E+00
294.	49	4.57E-04	109	0.00E+00	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	1.17E-05	230	0.00E+00	290	0.00E+00
306.	51	1.36E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
312.	52	2.05E-05	112	7.65E-06	232	0.00E+00	292	0.00E+00
318.	53	4.04E-03	113	1.03E-03	233	0.00E+00	293	0.00E+00
324.	54	0.00E+00	114	4.38E-05	234	0.00E+00	294	0.00E+00
330.	55	2.93E-03	115	7.22E-06	235	0.00E+00	295	0.00E+00
336.	56	4.23E-05	116	0.00E+00	236	0.00E+00	296	0.00E+00
342.	57	0.00E+00	117	0.00E+00	237	0.00E+00	297	0.00E+00
348.	58	0.00E+00	118	0.00E+00	238	0.00E+00	298	0.00E+00
354.	59	0.00E+00	119	0.00E+00	239	0.00E+00	299	0.00E+00
360.	60	0.00E+00	120	0.00E+00	240	0.00E+00	300	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	5.53E-05	630	0.00E+00	640	0.00E+00
7.5	611	0.00E+00	621	1.79E-04	631	1.20E-04	641	0.00E+00
15.0	612	0.00E+00	622	5.57E-05	632	0.73E-05	642	0.00E+00
23.0	613	0.00E+00	623	5.07E-05	633	1.23E-04	643	0.00E+00
30.5	614	0.00E+00	624	1.57E-03	634	1.20E-03	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	6.35E-06	660	6.95E-06				
7.5	651	3.24E-05	661	0.00E+00				
15.0	652	3.73E-05	662	0.00E+00				
23.0	653	3.58E-05	663	1.07E-04				
30.5	654	2.58E-05	664	1.38E-03				

EOCR TEST 9 NRC STAB G 7/20/78 0503-0603 MST

GAS S AVERAGE WINDS: SPEED 4.1 M/S ; DIRECTION 31. DEGREES
SOURCE STRENGTH 0.1016 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M	GLN	100. M	GLN	400. M	GLN	800. M
		CONC		CONC		CONC		CONC
114.	19	0.00E+00	79	1.70E-06	199	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	1.71E-05	200	0.00E+00	260	0.00E+00
126.	21	0.00E+00	81	2.32E-05	201	4.57E-06	261	0.00E+00
132.	22	0.00E+00	82	4.90E-05	202	1.34E-05	262	0.00E+00
138.	23	0.00E+00	83	5.99E-05	203	3.05E-05	263	1.37E-05
144.	24	0.00E+00	84	0.00E+00	204	1.41E-05	264	1.93E-05
150.	25	0.00E+00	85	1.70E-04	205	1.00E-05	265	1.29E-05
156.	26	0.00E+00	86	2.22E-04	206	1.36E-05	266	0.00E+00
162.	27	0.00E+00	87	1.77E-04	207	1.71E-05	267	0.00E+00
168.	28	0.00E+00	88	1.95E-04	208	0.00E+00	268	3.65E-06
174.	29	0.00E+00	89	2.06E-04	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	2.70E-04	210	1.24E-05	270	0.00E+00
186.	31	0.00E+00	91	1.96E-04	211	1.22E-05	271	9.27E-06
192.	32	0.00E+00	92	1.89E-04	212	0.00E+00	272	0.00E+00
198.	33	0.00E+00	93	9.33E-05	213	1.50E-05	273	5.02E-06
204.	34	0.00E+00	94	7.60E-05	214	0.00E+00	274	2.21E-06
210.	35	0.00E+00	95	7.29E-05	215	2.31E-05	275	2.36E-05
216.	36	0.00E+00	96	0.00E+00	216	1.77E-05	276	0.00E+00
222.	37	0.00E+00	97	1.30E-05	217	0.00E+00	277	6.62E-06
228.	38	0.00E+00	98	4.45E-05	218	0.00E+00	278	0.00E+00
234.	39	0.00E+00	99	2.41E-05	219	1.22E-06	279	1.01E-06
240.	40	0.00E+00	100	0.51E-06	220	0.00E+00	280	1.64E-06
246.	41	0.00E+00	101	4.75E-06	221	0.00E+00	281	5.54E-06
252.	42	0.00E+00	102	3.93E-06	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	2.10E-06	223	0.00E+00	283	0.00E+00
276.	46	0.00E+00	106	1.12E-06	226	4.23E-07	286	0.00E+00

GAS F AVERAGE WINDS: SPEED 1.9 M/S ; DIRECTION 3. DEGREES
SOURCE STRENGTH 0.6274 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M	GLN	100. M	GLN	400. M	GLN	800. M
		CONC		CONC		CONC		CONC
72.	12	0.00E+00	72	5.20E-05	192	4.07E-05	252	0.00E+00
78.	13	0.00E+00	73	0.09E-05	193	0.00E+00	253	0.00E+00
84.	14	0.00E+00	74	6.13E-05	194	1.71E-05	254	0.00E+00
90.	15	0.00E+00	75	0.00E+00	195	0.00E+00	255	3.79E-05
96.	16	0.00E+00	76	1.15E-04	196	0.00E+00	256	0.00E+00
102.	17	0.00E+00	77	9.11E-05	197	0.00E+00	257	3.95E-05
108.	18	0.00E+00	78	3.36E-05	198	2.95E-05	258	5.16E-06
114.	19	0.00E+00	79	1.22E-04	199	2.05E-05	259	1.40E-05
120.	20	0.00E+00	80	2.03E-04	200	5.02E-05	260	7.36E-06

EOCR TEST 9 NRC STAB G 7/20/78 0503-0603 MST

GAS F AVERAGE WINDS: SPEED 1.9 M/S ; DIRECTION 3. DEGREES
SOURCE STRENGTH 0.6274 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M	GLN	100. M	GLN	400. M	GLN	800. M
		CONC		CONC		CONC		CONC
126.	21	0.00E+00	81	5.17E-04	201	6.35E-05	261	1.06E-05
132.	22	0.00E+00	82	6.81E-04	202	0.21E-05	262	5.16E-06
138.	23	0.00E+00	83	4.33E-04	203	4.33E-05	263	1.44E-05
144.	24	0.00E+00	84	0.00E+00	204	1.49E-05	264	0.59E-06
150.	25	0.00E+00	85	6.09E-04	205	7.25E-05	265	3.10E-05
156.	26	0.00E+00	86	5.53E-04	206	6.30E-05	266	2.69E-06
162.	27	0.00E+00	87	4.32E-04	207	4.45E-05	267	9.05E-06
168.	28	0.00E+00	88	3.34E-04	208	0.00E+00	268	6.13E-06
174.	29	0.00E+00	89	2.69E-04	209	0.00E+00	269	1.09E-05
180.	30	0.00E+00	90	2.26E-04	210	9.66E-05	270	0.00E+00
186.	31	0.00E+00	91	1.27E-04	211	5.33E-05	271	0.03E-05
192.	32	0.00E+00	92	2.03E-04	212	0.00E+00	272	3.96E-06
198.	33	0.00E+00	93	1.99E-04	213	7.29E-05	273	4.55E-05
204.	34	0.00E+00	94	1.50E-04	214	0.00E+00	274	0.00E+00
210.	35	0.00E+00	95	9.60E-05	215	5.90E-05	275	5.00E-05
216.	36	0.00E+00	96	0.00E+00	216	2.43E-05	276	0.00E+00
222.	37	0.00E+00	97	2.35E-05	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	9.73E-05	218	0.00E+00	278	9.02E-06
234.	39	0.00E+00	99	1.64E-04	219	2.90E-05	279	5.95E-05
240.	40	0.00E+00	100	1.10E-04	220	0.00E+00	280	6.66E-05
246.	41	0.00E+00	101	4.96E-05	221	0.00E+00	281	0.00E+00
252.	42	0.00E+00	102	5.07E-05	222	0.00E+00	282	5.06E-06
258.	43	0.00E+00	103	1.70E-05	223	4.15E-05	283	1.02E-05
264.	44	0.00E+00	104	3.60E-05	224	5.60E-06	284	0.00E+00
270.	45	0.00E+00	105	2.90E-05	225	5.41E-05	285	6.19E-05
276.	46	0.00E+00	106	4.90E-05	226	1.32E-05	286	9.61E-06
282.	47	0.00E+00	107	3.30E-05	227	3.46E-06	287	3.62E-06
288.	48	0.00E+00	108	2.26E-05	228	1.10E-06	288	1.35E-05
294.	49	0.00E+00	109	1.15E-05	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	1.20E-05	230	1.15E-05	290	2.65E-06
306.	51	0.00E+00	111	4.29E-05	231	4.26E-06	291	0.00E+00

GAS B AVERAGE WINDS: SPEED 3.9 M/S ; DIRECTION 31. DEGREES
SOURCE STRENGTH 0.1371 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M	GLN	100. M	GLN	400. M	GLN	800. M
		CONC		CONC		CONC		CONC
96.	16	0.00E+00	76	0.00E+00	196	0.00E+00	256	3.20E-05
108.	18	0.00E+00	78	1.62E-05	198	0.00E+00	258	0.00E+00
114.	19	0.00E+00	79	4.04E-06	199	0.00E+00	259	4.10E-05
120.	20	0.00E+00	80	0.00E+00	200	2.75E-05	260	0.00E+00

EOCR TEST 9 NRC STAB G 7/20/78 0503-0603 MST

GAS B AVERAGE WINDS: SPEED 3.9 M/S ; DIRECTION 31. DEGREES
SOURCE STRENGTH 0.1371 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M	GLN	100. M	GLN	400. M	GLN	800. M
		CONC		CONC		CONC		CONC
126.	21	0.00E+00	81	1.34E-05	201	0.00E+00	261	5.75E-05
132.	22	0.00E+00	82	5.06E-05	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	7.09E-05	203	2.33E-05	263	0.00E+00
144.	24	0.00E+00	84	0.00E+00	204	0.00E+00	264	2.30E-06
150.	25	0.00E+00	85	1.70E-04	205	0.00E+00	265	4.52E-05
156.	26	0.00E+00	86	1.60E-04	206	0.00E+00	266	2.70E-05
162.	27	0.00E+00	87	1.50E-04	207	0.00E+00	267	4.24E-05
168.	28	0.00E+00	88	1.32E-04	208	0.00E+00	268	3.62E-05
174.	29	0.00E+00	89	1.03E-04	209	0.00E+00	269	2.66E-05
180.	30	0.00E+00	90	1.01E-04	210	0.00E+00	270	0.00E+00
186.	31	0.00E+00	91	1.26E-04	211	4.66E-06	271	0.00E+00
192.	32	0.00E+00	92	1.16E-04	212	0.00E+00	272	0.35E-06
198.	33	0.00E+00	93	6.02E-05	213	0.00E+00	273	0.00E+00
204.	34	0.00E+00	94	3.76E-05	214	0.00E+00	274	0.00E+00
210.	35	0.00E+00	95	3.03E-05	215	0.40E-06	275	5.00E-06
222.	37	0.00E+00	97	7.39E-05	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	1.72E-05	218	0.00E+00	278	5.10E-05
234.	39	0.00E+00	99	1.33E-05	219	0.00E+00	279	5.70E-07
246.	41	0.00E+00	101	0.00E+00	221	0.00E+00	281	2.04E-05
276.	46	0.00E+00	106	0.00E+00	226	0.00E+00	286	2.60E-05
294.	49	0.00E+00	109	1.00E-04	229	0.00E+00	289	0.00E+00

EOCR TEST 10 NRC STAB A 7/31/75 1024-1107 MST

GAS 5 AVERAGE WINDS: SPEED 3.8 M/S ;DIRECTION 13. DEGREES
SOURCE STRENGTH 0.1113 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
12.	2	0.00E+00	62	0.00E+00	182	5.84E-06	242	0.00E+00
18.	3	0.00E+00	63	9.23E-05	183	3.06E-06	243	0.00E+00
24.	4	0.00E+00	64	8.86E-05	184	9.26E-06	244	0.00E+00
30.	5	0.00E+00	65	7.53E-05	185	7.61E-06	245	1.03E-06
36.	6	0.00E+00	66	7.29E-05	186	7.13E-06	246	6.67E-07
42.	7	0.00E+00	67	1.41E-04	187	4.80E-06	247	0.00E+00
48.	8	0.00E+00	68	1.05E-04	188	0.00E+00	248	0.00E+00
54.	9	0.00E+00	69	2.40E-04	189	1.39E-05	249	2.81E-06
60.	10	0.00E+00	70	0.00E+00	190	7.83E-06	250	0.00E+00
66.	11	0.00E+00	71	0.00E+00	191	4.57E-06	251	0.00E+00
72.	12	0.00E+00	72	1.22E-05	192	1.86E-06	252	0.00E+00
78.	13	0.00E+00	73	8.22E-05	193	0.00E+00	253	0.00E+00
84.	14	0.00E+00	74	1.77E-05	194	0.00E+00	254	0.00E+00
90.	15	0.00E+00	75	4.10E-06	195	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	1.32E-06	196	0.00E+00	256	0.00E+00
102.	17	0.00E+00	77	1.32E-06	197	0.00E+00	257	0.00E+00
108.	18	0.00E+00	78	2.06E-06	198	0.00E+00	258	0.00E+00
114.	19	0.00E+00	79	1.75E-06	199	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	2.74E-06	200	0.00E+00	260	0.00E+00
126.	21	0.00E+00	81	1.08E-05	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	2.53E-05	202	2.09E-06	262	0.00E+00
138.	23	0.00E+00	83	5.64E-06	203	3.98E-06	263	0.00E+00
144.	24	0.00E+00	84	3.66E-05	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	8.96E-05	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	7.09E-05	206	3.13E-06	266	0.00E+00
162.	27	0.00E+00	87	9.12E-05	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	1.35E-04	208	2.24E-06	268	2.74E-06
174.	29	0.00E+00	89	0.83E-05	209	1.93E-05	269	0.00E+00
180.	30	0.00E+00	90	0.83E-05	210	1.93E-05	270	0.00E+00

GAS F AVERAGE WINDS: SPEED 0.8 M/S ;DIRECTION 1. DEGREES
SOURCE STRENGTH 0.6200 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	0.00E+00	61	0.00E+00	181	1.10E-06	241	5.85E-07
12.	2	0.00E+00	62	0.00E+00	182	8.70E-06	242	0.00E+00
18.	3	0.00E+00	63	4.67E-05	183	9.00E-06	243	0.00E+00
24.	4	0.00E+00	64	4.15E-05	184	0.00E+00	244	5.41E-06
30.	5	0.00E+00	65	4.66E-05	185	3.48E-06	245	0.00E+00
36.	6	0.00E+00	66	5.23E-05	186	0.00E+00	246	1.65E-05
42.	7	0.00E+00	67	8.39E-05	187	6.59E-06	247	0.00E+00
48.	8	0.00E+00	68	4.72E-05	188	3.81E-05	248	2.66E-06

EOCR TEST 10 NRC STAB A 7/31/75 1024-1107 MST

GAS F AVERAGE WINDS: SPEED 0.8 M/S ;DIRECTION 1. DEGREES
SOURCE STRENGTH 0.6200 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
54.	9	0.00E+00	69	6.70E-05	189	2.99E-05	249	1.46E-05
60.	10	0.00E+00	70	3.05E-05	190	0.00E+00	250	2.81E-06
66.	11	0.00E+00	71	0.00E+00	191	2.26E-06	251	2.36E-06
72.	12	0.00E+00	72	3.74E-06	192	1.56E-06	252	0.00E+00
78.	13	0.00E+00	73	1.81E-05	193	4.06E-07	253	0.00E+00
84.	14	0.00E+00	74	1.37E-06	194	6.06E-07	254	0.00E+00
90.	15	0.00E+00	75	1.30E-05	195	8.65E-07	255	0.00E+00
96.	16	0.00E+00	76	5.78E-06	196	7.00E-06	256	0.00E+00
102.	17	0.00E+00	77	2.68E-06	197	4.27E-07	257	0.00E+00
108.	18	0.00E+00	78	1.13E-06	198	1.13E-05	258	0.00E+00
114.	19	0.00E+00	79	3.10E-06	199	8.38E-06	259	0.00E+00
120.	20	0.00E+00	80	4.89E-05	200	6.92E-06	260	0.00E+00
126.	21	0.00E+00	81	2.30E-05	201	1.14E-05	261	0.00E+00
246.	41	0.00E+00	101	8.37E-06	221	0.00E+00	281	0.00E+00
258.	43	0.00E+00	103	1.64E-06	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	0.00E+00	224	3.02E-06	284	0.00E+00
270.	45	0.00E+00	105	5.51E-07	225	6.04E-06	285	8.60E-06
276.	46	0.00E+00	106	0.00E+00	226	3.83E-06	286	0.00E+00
282.	47	0.00E+00	107	2.65E-06	227	0.00E+00	287	5.65E-07
294.	49	0.00E+00	109	5.78E-06	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	0.00E+00	230	0.00E+00	290	9.36E-07
306.	51	0.00E+00	111	4.55E-06	231	0.00E+00	291	4.27E-06
312.	52	0.00E+00	112	0.00E+00	232	0.00E+00	292	1.85E-05
318.	53	0.00E+00	113	7.03E-06	233	2.98E-06	293	0.00E+00
324.	54	0.00E+00	114	6.45E-06	234	0.00E+00	294	1.57E-05
330.	55	0.00E+00	115	1.37E-05	235	4.00E-05	295	9.20E-06
336.	56	0.00E+00	116	1.79E-05	236	1.15E-06	296	1.36E-06
342.	57	0.00E+00	117	3.60E-05	237	3.08E-06	297	0.00E+00
348.	58	0.00E+00	118	2.01E-05	238	0.00E+00	298	2.28E-06
354.	59	0.00E+00	119	5.51E-05	239	7.71E-06	299	0.00E+00
360.	60	0.00E+00	120	2.47E-05	240	1.03E-05	300	0.00E+00

GAS B AVERAGE WINDS: SPEED 3.7 M/S ;DIRECTION 13. DEGREES
SOURCE STRENGTH 0.1388 GM/S RELEASED ROOF

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	0.00E+00	63	7.68E-05	183	9.46E-06	243	0.00E+00
24.	4	0.00E+00	64	4.93E-05	184	0.00E+00	244	0.00E+00
30.	5	0.00E+00	65	2.84E-05	185	2.46E-05	245	0.00E+00
36.	6	0.00E+00	66	2.50E-05	186	0.00E+00	246	0.00E+00

EOCR TEST 10 NRC STAB A 7/31/75 1024-1107 MST

GAS B AVERAGE WINDS: SPEED 3.7 M/S ;DIRECTION 13. DEGREES
SOURCE STRENGTH 0.1388 GM/S RELEASED ROOF

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING		50. M		100. M		400. M		800. M	
	GLN	CONC	ELN	CONC	GLN	CONC	GLN	CONC	
42.	7	0.00E+00	57	4.14E-05	187	0.00E+00	247	0.00E+00	
48.	8	0.00E+00	58	2.00E-05	188	4.09E-05	248	0.00E+00	
54.	9	0.00E+00	59	5.03E-05	189	0.00E+00	249	0.00E+00	
60.	10	0.00E+00	60	2.70E-05	190	0.00E+00	250	0.00E+00	
66.	11	0.00E+00	61	3.44E-05	191	0.00E+00	251	0.00E+00	
72.	12	0.00E+00	62	1.02E-05	192	0.00E+00	252	0.00E+00	
78.	13	0.00E+00	63	1.02E-05	193	0.00E+00	253	0.00E+00	
84.	14	0.00E+00	64	1.02E-05	194	0.00E+00	254	0.00E+00	
90.	15	0.00E+00	65	2.47E-06	195	0.00E+00	255	0.00E+00	
96.	16	0.00E+00	66	9.20E-06	196	0.00E+00	256	0.00E+00	
102.	17	0.00E+00	67	1.13E-05	197	0.00E+00	257	0.00E+00	
108.	18	0.00E+00	68	1.06E-05	198	0.00E+00	258	0.00E+00	
114.	19	0.00E+00	69	1.06E-05	199	0.00E+00	259	0.00E+00	
120.	20	0.00E+00	70	1.13E-05	200	0.00E+00	260	0.00E+00	
126.	21	0.00E+00	71	1.13E-05	201	0.00E+00	261	0.00E+00	
132.	22	0.00E+00	72	1.13E-05	202	0.00E+00	262	0.00E+00	
138.	23	0.00E+00	73	1.13E-05	203	0.00E+00	263	0.00E+00	
144.	24	0.00E+00	74	1.13E-05	204	0.00E+00	264	0.00E+00	
150.	25	0.00E+00	75	1.13E-05	205	0.00E+00	265	0.00E+00	
156.	26	0.00E+00	76	1.13E-05	206	0.00E+00	266	0.00E+00	
162.	27	0.00E+00	77	1.13E-05	207	0.00E+00	267	0.00E+00	
168.	28	0.00E+00	78	1.13E-05	208	0.00E+00	268	0.00E+00	
174.	29	0.00E+00	79	1.13E-05	209	0.00E+00	269	0.00E+00	
180.	30	0.00E+00	80	1.13E-05	210	0.00E+00	270	0.00E+00	

EOCR TEST 11 NRC STAB A 8/12/75 1000-1035 MST

GAS 5 AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 82. DEGREES
SOURCE STRENGTH 0.2104 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	0.00E+00	61	2.22E-07	181	0.00E+00	241	0.00E+00
24.	4	9.63E-08	64	9.45E-07	184	0.00E+00	244	0.00E+00
54.	9	0.00E+00	69	2.08E-07	189	0.00E+00	249	0.00E+00
58.	10	4.31E-07	70	0.00E+00	190	0.00E+00	250	0.00E+00
66.	11	0.00E+00	71	7.46E-08	191	0.00E+00	251	0.00E+00
78.	13	7.45E-07	73	1.01E-06	193	0.00E+00	253	0.00E+00
84.	14	0.00E+00	74	1.84E-06	194	0.00E+00	254	0.00E+00
96.	16	3.93E-07	76	2.00E-06	196	0.00E+00	256	0.00E+00
102.	17	0.00E+00	77	1.18E-07	197	0.00E+00	257	0.00E+00
114.	19	5.61E-07	79	3.30E-06	199	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	8.46E-08	200	0.00E+00	260	0.00E+00
132.	22	1.59E-07	82	1.79E-06	202	0.00E+00	262	0.00E+00
139.	23	0.00E+00	83	3.74E-07	203	0.00E+00	263	0.00E+00
144.	24	0.00E+00	84	1.75E-06	204	0.00E+00	264	0.00E+00
150.	25	4.78E-07	85	9.96E-07	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	7.47E-07	206	0.00E+00	266	0.00E+00
162.	27	0.00E+00	87	5.14E-07	207	0.00E+00	267	0.00E+00
168.	28	6.72E-07	88	1.89E-07	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	7.23E-07	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	2.75E-06	210	0.00E+00	270	0.00E+00
186.	31	3.60E-06	91	4.30E-06	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	3.55E-06	212	1.73E-07	272	0.00E+00
198.	33	0.00E+00	93	1.07E-05	213	0.00E+00	273	0.00E+00
204.	34	7.78E-07	94	7.50E-07	214	1.07E-07	274	0.00E+00
216.	36	0.00E+00	96	1.25E-06	216	0.00E+00	276	0.00E+00
222.	37	2.49E-06	97	8.31E-07	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	2.60E-07	218	0.00E+00	278	0.00E+00
234.	39	0.00E+00	99	7.95E-07	219	9.04E-08	279	0.00E+00
240.	40	1.47E-06	100	9.33E-07	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	1.62E-06	221	0.00E+00	281	0.00E+00
252.	42	0.00E+00	102	5.33E-06	222	7.28E-08	282	0.00E+00
258.	43	0.00E+00	103	5.13E-06	223	1.14E-07	283	0.00E+00
264.	44	0.00E+00	104	3.13E-06	224	8.27E-08	284	0.00E+00
270.	45	0.00E+00	105	2.53E-06	225	0.00E+00	285	0.00E+00
276.	46	8.93E-07	106	1.31E-06	226	0.00E+00	286	6.55E-08
282.	47	0.00E+00	107	1.31E-06	227	0.00E+00	287	0.00E+00
288.	48	0.00E+00	108	2.56E-07	228	0.00E+00	288	0.00E+00
294.	49	1.62E-06	109	1.01E-06	229	7.26E-09	289	0.00E+00
300.	50	0.00E+00	110	2.58E-07	230	1.06E-07	290	0.00E+00
306.	51	0.00E+00	111	7.40E-08	231	6.85E-09	291	0.00E+00
312.	52	9.04E-08	112	1.75E-07	232	0.00E+00	292	0.00E+00
318.	53	0.00E+00	113	3.20E-07	233	0.00E+00	293	0.00E+00
324.	54	0.00E+00	114	2.03E-07	234	0.00E+00	294	0.00E+00

EOCR TEST 11 NRC STAB A 8/12/75 1000-1035 MST

GAS 5 AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 82. DEGREES
SOURCE STRENGTH 0.2104 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
330.	55	2.48E-07	115	1.17E-07	235	0.00E+00	295	0.00E+00
340.	58	9.29E-07	118	0.06E-08	238	0.00E+00	298	0.00E+00
354.	59	0.00E+00	119	9.46E-08	239	0.00E+00	299	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	2.75E-06	620	1.07E-05	630	0.00E+00	640	0.00E+00
7.5	611	6.39E-07	621	1.59E-07	631	0.00E+00	641	0.00E+00
15.0	612	1.13E-06	622	1.12E-05	632	9.00E-03	642	0.00E+00
23.0	613	0.00E+00	623	1.43E-05	633	4.45E-05	643	0.00E+00
30.5	614	1.10E-06	624	6.21E-06	634	0.00E+00	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
7.5	651	0.00E+00	661	3.31E-07				
15.0	652	1.16E-06	662	2.06E-07				
23.0	653	0.00E+00	663	4.79E-07				
30.5	654	0.00E+00	664	2.63E-07				

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
701 2.37E-05
702 3.37E-05
703 3.95E-07
704 6.96E-06

GAS 5 AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 82. DEGREES
SOURCE STRENGTH 0.5940 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	1.22E-05	61	7.49E-05	181	4.22E-06	241	0.00E+00
12.	2	0.00E+00	62	7.23E-06	182	1.43E-05	242	1.53E-05
18.	3	0.00E+00	63	1.64E-05	183	1.01E-05	243	1.23E-05
24.	4	1.54E-05	64	1.26E-05	184	1.12E-05	244	1.00E-05
30.	5	0.00E+00	65	7.94E-05	185	2.19E-05	245	2.46E-05
36.	6	0.00E+00	66	1.77E-05	186	1.93E-05	246	2.19E-05
42.	7	5.71E-05	67	3.01E-05	187	6.73E-06	247	1.35E-05

EOCR TEST 11 NRC STAB A 8/12/75 1000-1035 MST

GAS 6 AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 82. DEGREES
SOURCE STRENGTH 0.5940 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
48.	8	0.00E+00	68	9.47E-06	188	8.27E-06	248	3.71E-05
54.	9	0.00E+00	69	7.29E-05	189	2.70E-05	249	2.82E-05
60.	10	6.95E-06	70	2.04E-05	190	6.56E-06	250	2.01E-05
66.	11	0.00E+00	71	2.04E-05	191	4.84E-05	251	0.00E+00
72.	12	0.00E+00	72	1.16E-05	192	1.00E-05	252	0.00E+00
78.	13	4.27E-05	73	3.93E-04	193	3.08E-06	253	2.32E-05
84.	14	0.00E+00	74	6.75E-04	194	2.24E-05	254	2.12E-05
90.	15	0.00E+00	75	0.00E+00	195	1.77E-05	255	2.86E-05
96.	16	7.14E-05	76	2.56E-05	196	1.69E-05	256	3.90E-05
102.	17	0.00E+00	77	2.64E-05	197	4.56E-06	257	2.00E-05
108.	18	0.00E+00	78	0.09E-05	198	3.71E-04	258	1.19E-04
114.	19	1.09E-04	79	1.51E-05	199	0.00E+00	259	1.25E-04
120.	20	0.00E+00	80	2.78E-05	200	8.91E-06	260	0.00E+00
126.	21	0.00E+00	81	5.42E-05	201	2.10E-05	261	2.29E-05
132.	22	1.05E-05	82	4.68E-05	202	6.35E-05	262	1.70E-05
138.	23	0.00E+00	83	1.39E-05	203	1.22E-05	263	2.17E-05
144.	24	0.00E+00	84	1.97E-05	204	3.34E-05	264	2.01E-05
150.	25	4.40E-06	85	3.01E-05	205	3.79E-05	265	3.06E-05
156.	26	0.00E+00	86	3.23E-05	206	2.98E-05	266	4.20E-05
162.	27	0.00E+00	87	1.39E-05	207	1.16E-05	267	1.20E-05
168.	28	1.38E-05	88	1.57E-05	208	1.00E-05	268	0.00E+00
174.	29	0.00E+00	89	1.37E-05	209	1.04E-05	269	1.03E-05
180.	30	0.00E+00	90	1.50E-05	210	7.52E-05	270	2.53E-05
186.	31	2.03E-05	91	5.50E-05	211	3.33E-05	271	2.90E-05
192.	32	0.00E+00	92	2.24E-05	212	3.65E-05	272	1.15E-05
198.	33	0.00E+00	93	3.06E-05	213	2.45E-05	273	1.41E-05
204.	34	1.06E-05	94	1.70E-05	214	3.62E-05	274	1.79E-05
210.	35	0.00E+00	95	0.00E+00	215	1.05E-05	275	2.03E-05
216.	36	0.00E+00	96	4.09E-05	216	1.50E-05	276	0.00E+00
222.	37	2.00E-05	97	1.45E-05	217	5.65E-06	277	4.09E-06
228.	38	0.00E+00	98	4.90E-06	218	3.56E-05	278	1.07E-05
234.	39	0.00E+00	99	7.40E-05	219	1.46E-05	279	1.03E-05
240.	40	1.52E-05	100	4.63E-05	220	1.74E-05	280	3.20E-05
246.	41	0.00E+00	101	2.44E-05	221	1.31E-05	281	2.79E-05
252.	42	0.00E+00	102	4.18E-05	222	9.40E-06	282	0.00E+00
258.	43	0.00E+00	103	3.38E-05	223	9.53E-06	283	5.12E-05
264.	44	0.00E+00	104	1.94E-05	224	9.19E-06	284	0.00E+00
270.	45	0.00E+00	105	2.09E-05	225	1.51E-05	285	1.49E-05
276.	46	2.65E-05	106	1.04E-05	226	1.28E-05	286	0.00E+00
282.	47	0.00E+00	107	2.23E-05	227	5.24E-06	287	9.18E-06
288.	48	0.00E+00	108	1.19E-05	228	0.00E+00	288	1.93E-06
294.	49	6.57E-05	109	6.37E-05	229	4.15E-06	289	3.34E-06
300.	50	0.00E+00	110	1.90E-05	230	0.00E+00	290	2.55E-05

EOCR TEST 11 NRC STAB A 8/12/75 1000-1035 MST

GAS 6 AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 82. DEGREES
SOURCE STRENGTH 0.5940 GM/S RELEASED ROOF

EOCR TEST 11 NRC STAB A 8/12/75 1009-1035 MST

GAS 8 AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 82. DEGREES
SOURCE STRENGTH 0.0905 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES								
BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	2.89E-05	61	0.00E+00	181	0.00E+00	241	0.00E+00
24.	4	1.77E-05	64	0.00E+00	184	0.00E+00	244	0.00E+00
60.	10	1.39E-05	70	0.00E+00	190	0.00E+00	250	0.00E+00
78.	13	2.15E-04	73	2.32E-06	193	0.00E+00	253	0.00E+00
84.	14	0.00E+00	74	2.16E-06	194	0.00E+00	254	0.00E+00
96.	16	1.24E-04	76	0.00E+00	196	0.00E+00	256	0.00E+00
114.	19	2.45E-05	79	0.00E+00	199	0.00E+00	259	0.00E+00
132.	22	0.00E+00	82	4.69E-06	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	6.14E-07	203	0.00E+00	263	0.00E+00
150.	25	1.28E-06	85	1.14E-06	205	0.00E+00	265	6.46E-07
162.	27	0.00E+00	87	4.26E-07	207	0.00E+00	267	0.00E+00
174.	29	0.00E+00	89	1.24E-06	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	5.13E-07	210	0.00E+00	270	0.00E+00
186.	31	9.97E-07	91	1.32E-06	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	0.67E-06	212	0.00E+00	272	0.00E+00
198.	33	0.00E+00	93	5.57E-07	213	0.00E+00	273	0.00E+00
222.	37	0.00E+00	97	2.13E-07	217	0.00E+00	277	0.00E+00
232.	42	0.00E+00	102	4.00E-07	222	0.00E+00	282	0.00E+00
250.	43	0.00E+00	103	1.05E-06	223	0.00E+00	283	0.00E+00
276.	46	2.44E-06	106	0.00E+00	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	9.51E-07	227	0.00E+00	287	0.00E+00
294.	49	6.74E-07	109	2.61E-06	229	0.00E+00	289	0.00E+00
312.	52	1.97E-07	112	0.00E+00	232	0.00E+00	292	0.00E+00
318.	53	0.00E+00	113	5.19E-07	233	0.00E+00	293	0.00E+00
330.	55	7.06E-06	115	0.00E+00	235	0.00E+00	295	0.00E+00
340.	58	1.01E-05	118	0.00E+00	238	0.00E+00	298	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	5.13E-07	620	5.57E-07	630	0.00E+00	640	0.00E+00
7.5	611	1.52E-06	621	0.00E+00	631	0.00E+00	641	0.00E+00
15.0	612	3.40E-06	622	2.79E-06	632	0.00E+00	642	0.00E+00
23.0	613	0.00E+00	623	1.76E-06	633	0.00E+00	643	0.00E+00
30.5	614	0.01E-07	624	1.61E-05	634	0.00E+00	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				

EOCR TEST 11 NRC STAB A 8/12/75 1009-1035 MST

GAS 8 AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 82. DEGREES
SOURCE STRENGTH 0.0905 GM/S RELEASED GROUND

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	0.30E-06
702	4.52E-05
704	1.54E-05

EOCR TEST 12 NRC STAB E 8/13/75 0642-0712 MST

GAS 5 AVERAGE WINDS: SPEED 3.5 M/S ; DIRECTION 42. DEGREES
SOURCE STRENGTH 0.0619 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
186.	31	0.57E-07	91	9.61E-07	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	1.64E-06	212	0.00E+00	272	1.12E-05
198.	33	0.00E+00	93	8.46E-07	213	0.46E-07	273	0.00E+00
204.	34	8.96E-06	94	1.90E-05	214	8.94E-06	274	3.93E-06
210.	35	0.00E+00	95	3.24E-05	215	2.08E-05	275	0.00E+00
216.	36	0.00E+00	96	1.05E-05	216	1.62E-05	276	2.18E-05
222.	37	2.39E-06	97	6.47E-06	217	1.77E-05	277	7.16E-06
228.	38	0.00E+00	98	1.42E-06	218	1.34E-06	278	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	8.46E-07	630	0.00E+00	640	1.31E-05
7.5	611	6.56E-06	621	4.77E-06	631	7.36E-06	641	0.00E+00
15.0	612	7.88E-06	622	1.27E-05	632	3.15E-06	642	0.00E+00
23.0	613	0.00E+00	623	3.33E-05	633	1.68E-05	643	0.00E+00
30.5	614	0.00E+00	624	2.80E-05	634	1.09E-05	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	0.00E+00	660	8.46E-07				
7.5	651	7.14E-06	661	5.07E-06				
23.0	653	1.29E-06	663	7.59E-06				

MISCELLANEOUS SAMPLES

GROUP 1

GAS F AVERAGE WINDS: SPEED 3.4 M/S ; DIRECTION 42. DEGREES
SOURCE STRENGTH 0.6204 GM/S RELEASED ROOF

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	1.07E-04	61	0.00E+00	181	0.00E+00	241	0.00E+00
24.	4	1.00E-04	64	0.00E+00	184	0.00E+00	244	0.00E+00
42.	7	2.04E-05	67	0.00E+00	187	0.00E+00	247	0.00E+00
60.	10	1.22E-05	70	0.00E+00	190	0.00E+00	250	0.00E+00
78.	13	1.12E-05	73	0.00E+00	193	0.00E+00	253	0.00E+00
96.	16	1.31E-05	76	0.00E+00	196	0.00E+00	256	0.00E+00
114.	19	1.88E-05	79	0.00E+00	199	0.00E+00	259	0.00E+00

EOCR TEST 12 NRC STAB E 8/13/75 0642-0712 MST

GAS F AVERAGE WINDS: SPEED 3.4 M/S ; DIRECTION 42. DEGREES
SOURCE STRENGTH 0.6204 GM/S RELEASED ROOF

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
132.	22	2.16E-05	82	5.30E-05	202	4.42E-05	262	1.10E-05
138.	23	0.00E+00	83	1.03E-05	203	2.23E-05	263	5.38E-06
144.	24	0.00E+00	84	3.72E-05	204	1.63E-05	264	2.30E-05
150.	25	1.28E-05	85	0.00E+00	205	2.91E-05	265	5.08E-06
156.	26	0.00E+00	86	4.01E-05	206	2.53E-05	266	2.88E-05
162.	27	0.00E+00	87	2.90E-05	207	7.84E-06	267	8.73E-06
168.	28	0.00E+00	88	2.24E-05	208	2.94E-05	268	9.96E-06
174.	29	0.00E+00	89	2.24E-05	209	2.22E-05	269	1.05E-05
180.	30	0.00E+00	90	2.17E-05	210	3.27E-05	270	2.34E-05
186.	31	1.15E-04	91	5.40E-05	211	1.55E-05	271	5.08E-05
192.	32	0.00E+00	92	7.04E-05	212	3.06E-05	272	9.58E-05
198.	33	0.00E+00	93	7.64E-05	213	4.57E-05	273	0.00E+00
204.	34	2.41E-04	94	2.17E-04	214	9.02E-05	274	4.54E-05
210.	35	0.00E+00	95	2.76E-04	215	1.09E-04	275	0.00E+00
216.	36	0.00E+00	96	1.94E-04	216	1.51E-04	276	6.99E-05
222.	37	1.03E-04	97	1.18E-04	217	1.08E-04	277	4.38E-05
228.	38	0.00E+00	98	7.50E-05	218	5.14E-05	278	0.00E+00
234.	39	0.00E+00	99	7.16E-05	219	8.06E-06	279	3.26E-05
240.	40	8.57E-06	100	2.37E-05	220	2.44E-05	280	2.72E-05
246.	41	0.00E+00	101	6.13E-05	221	1.20E-05	281	1.37E-05
252.	42	0.00E+00	102	3.65E-05	222	1.62E-05	282	1.33E-05
258.	43	2.47E-05	103	3.03E-05	223	1.99E-05	283	2.71E-05
264.	44	0.00E+00	104	5.90E-05	224	2.32E-05	284	1.90E-05
270.	45	0.00E+00	105	1.39E-05	225	1.67E-05	285	2.93E-05
276.	46	1.17E-05	106	2.65E-05	226	5.26E-05	286	8.93E-06
282.	47	0.00E+00	107	1.53E-05	227	1.23E-05	287	0.00E+00
288.	48	0.00E+00	108	1.98E-05	228	1.02E-05	288	1.68E-05
294.	49	0.00E+00	109	1.53E-05	229	6.31E-06	289	5.92E-05
300.	50	0.00E+00	110	2.31E-05	230	1.38E-05	290	0.00E+00
306.	51	0.00E+00	111	2.01E-05	231	5.08E-06	291	2.98E-05
312.	52	1.60E-05	112	0.00E+00	232	0.00E+00	292	0.00E+00
318.	53	1.59E-05	113	0.00E+00	233	0.00E+00	293	0.00E+00
324.	54	1.05E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	2.17E-05	620	7.64E-05	630	4.42E-05	640	1.33E-04
7.5	611	1.18E-05	621	1.08E-04	631	7.76E-06	641	0.00E+00
15.0	612	3.78E-05	622	1.59E-04	632	1.89E-05	642	0.00E+00
23.0	613	6.04E-05	623	2.24E-04	633	2.23E-05	643	0.00E+00
30.5	614	8.43E-05	624	2.71E-04	634	2.59E-05	644	0.00E+00

EOCR TEST 12 NRC STAB E 8/13/75 0642-0712 MST

GAS F AVERAGE WINDS: SPEED 3.4 M/S ; DIRECTION 42. DEGREES
SOURCE STRENGTH 0.6204 GM/S RELEASED ROOF

TOWER SAMPLES

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	3.27E-05	660	4.57E-05
7.5	651	1.41E-05	661	3.74E-05
15.0	652	1.10E-05	662	1.21E-05
23.0	653	7.23E-06	663	1.38E-05
30.5	654	1.13E-05	664	5.95E-05

MISCELLANEOUS SAMPLES

GROUP 1

GLN CONC
701 8.19E-05
702 3.48E-05
703 4.25E-05GAS B AVERAGE WINDS: SPEED 2.3 M/S ; DIRECTION 40. DEGREES
SOURCE STRENGTH 0.1338 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
6.	1	1.62E-05	61	0.00E+00	181	0.00E+00	241	0.00E+00
24.	4	2.34E-05	64	0.00E+00	184	0.00E+00	244	0.00E+00
42.	7	6.07E-05	67	0.00E+00	187	0.00E+00	247	0.00E+00
60.	10	8.22E-05	70	0.00E+00	190	0.00E+00	250	0.00E+00
78.	13	7.24E-04	73	0.00E+00	193	0.00E+00	253	0.00E+00
96.	16	1.64E-03	76	0.00E+00	196	0.00E+00	256	0.00E+00
114.	19	7.37E-05	79	0.00E+00	199	0.00E+00	259	0.00E+00
132.	22	2.23E-04	82	0.00E+00	202	0.00E+00	262	0.00E+00
150.	25	0.00E+00	85	7.98E-07	205	0.00E+00	265	0.00E+00
168.	28	0.00E+00	88	6.17E-06	208	0.00E+00	268	0.00E+00
186.	31	8.47E-05	91	4.41E-05	211	1.14E-06	271	0.00E+00
192.	32	0.00E+00	92	4.87E-05	212	2.50E-06	272	1.92E-05
198.	33	0.00E+00	93	0.00E+00	213	1.47E-06	273	0.00E+00
204.	34	6.72E-05	94	5.11E-05	214	1.41E-06	274	1.03E-06
210.	35	0.00E+00	95	4.83E-05	215	5.34E-05	275	0.00E+00
216.	36	0.00E+00	96	2.95E-05	216	2.18E-06	276	2.83E-06
222.	37	4.47E-05	97	1.76E-05	217	4.04E-06	277	0.00E+00
228.	38	0.00E+00	98	2.05E-05	218	0.00E+00	278	0.00E+00

TOWER SAMPLES

EOCR TEST 12 NRC STAB E 8/13/75 0642-0712 MST									

GAS 8 AVERAGE WINDS: SPEED 2.3 M/S ; DIRECTION 40. DEGREES									
SOURCE STRENGTH 0.4379 CMC - RELEASED CROND.									

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
234.	39	0.00E+00	99	1.27E-05	219	0.00E+00	279	0.00E+00
240.	40	2.51E-05	100	6.90E-06	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	8.19E-07	221	0.00E+00	281	0.00E+00
252.	42	0.00E+00	102	1.39E-07	222	0.00E+00	282	0.00E+00
258.	43	1.40E-05	103	0.00E+00	223	0.00E+00	283	0.00E+00
264.	44	6.91E-06	106	0.00E+00	226	0.00E+00	286	0.00E+00
270.	45	2.29E-06	109	0.00E+00	229	0.00E+00	289	0.00E+00
276.	46	3.82E-06	112	0.00E+00	232	0.00E+00	292	0.00E+00
282.	47	4.72E-06	115	0.00E+00	235	0.00E+00	295	0.00E+00
288.	48	1.27E-05	118	0.00E+00	238	0.00E+00	298	0.00E+00

TOWER SAMPLES

TOWER 1		TOWER 2		TOWER 3		TOWER 4		
HEIGHT	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	4.29E-05	620	0.00E+00	630	0.00E+00	640	1.79E-05
7.5	611	3.33E-05	621	2.87E-05	631	0.00E+00	641	0.00E+00
15.0	612	1.50E-05	622	5.45E-05	632	0.00E+00	642	0.00E+00
23.0	613	0.00E+00	623	4.66E-05	633	0.00E+00	643	0.00E+00
30.5	614	0.00E+00	624	2.93E-05	634	0.00E+00	644	0.00E+00
TOWER 5		TOWER 6						
HEIGHT	GLN	CONC	GLN	CONC				
0.5	650	0.00E+00	660	1.47E-06				
7.5	651	0.00E+00	661	6.46E-06				
23.0	653	0.00E+00	663	3.25E-06				

EOCR TEST 13 NRC STAB A 8/14/75 1017-1117 MST

GAS S AVERAGE WINDS: SPEED 2.1 M/S ; DIRECTION 22. DEGREES
SOURCE STRENGTH 0.0581 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M	GLN	100. M	GLN	400. M	GLN	800. M
60.	10	1.35E-06	70	0.00E+00	190	1.04E-06	250	0.00E+00
72.	12	0.00E+00	72	0.00E+00	192	0.00E+00	252	3.60E-07
78.	13	1.35E-06	73	0.00E+00	193	2.93E-07	253	4.45E-06
90.	15	0.00E+00	75	0.00E+00	195	0.00E+00	255	8.74E-03
96.	16	3.93E-06	76	0.00E+00	196	0.00E+00	256	0.00E+00
102.	17	0.00E+00	77	0.00E+00	197	2.98E-07	257	9.01E-08
108.	19	0.00E+00	79	2.99E-06	199	0.00E+00	258	0.00E+00
114.	19	2.92E-06	79	4.76E-07	199	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	3.90E-07	200	0.00E+00	260	7.50E-07
126.	21	0.00E+00	81	0.00E+00	201	0.00E+00	261	1.09E-07
132.	22	1.22E-05	82	2.36E-06	202	4.10E-07	262	0.57E-07
136.	23	0.00E+00	83	3.24E-06	203	2.09E-07	263	0.00E+00
144.	24	0.00E+00	84	1.00E-05	204	4.29E-07	264	0.00E+00
150.	25	2.08E-05	85	1.05E-05	205	2.72E-07	265	5.04E-07
156.	26	0.00E+00	86	6.58E-06	206	0.00E+00	266	0.00E+00
162.	27	0.00E+00	87	2.59E-05	207	0.00E+00	267	7.78E-03
168.	29	5.16E-05	89	1.50E-05	209	0.00E+00	269	0.00E+00
174.	29	0.00E+00	89	4.62E-05	209	1.09E-06	269	0.00E+00
180.	30	0.00E+00	90	1.00E-05	210	0.00E+00	270	2.52E-07
186.	31	6.89E-06	91	1.50E-05	211	2.54E-07	271	0.00E+00
192.	32	0.00E+00	92	1.52E-05	212	7.30E-07	272	9.91E-07
198.	33	0.00E+00	93	1.23E-05	213	5.43E-07	273	4.78E-07
204.	34	4.45E-06	94	4.35E-06	214	2.15E-07	274	9.91E-07
210.	35	0.00E+00	95	2.63E-06	215	0.00E+00	275	0.00E+00
216.	36	0.00E+00	96	4.13E-06	216	5.66E-07	276	5.03E-07
222.	37	7.51E-06	97	0.00E+00	217	6.89E-07	277	0.00E+00
228.	39	0.00E+00	98	4.04E-06	218	2.01E-05	278	5.59E-07
234.	39	0.00E+00	99	3.55E-06	219	2.57E-05	279	0.00E+00
240.	40	9.57E-06	100	4.00E-06	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	6.36E-06	221	6.09E-07	281	1.67E-06
252.	42	0.00E+00	102	0.00E+00	222	7.54E-06	282	0.00E+00
258.	43	2.33E-06	103	3.39E-06	223	2.71E-07	283	6.58E-07
264.	44	0.00E+00	104	3.41E-06	224	3.51E-07	284	0.00E+00
270.	45	0.00E+00	105	4.76E-05	225	0.00E+00	285	4.47E-07
276.	46	2.92E-05	106	4.51E-06	226	0.00E+00	286	2.57E-06
282.	47	0.00E+00	107	5.99E-06	227	3.62E-07	287	7.03E-07
288.	49	0.00E+00	109	6.56E-05	228	5.09E-07	288	0.00E+00
294.	49	1.13E-06	109	4.95E-05	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	7.76E-07	230	6.36E-07	290	2.39E-07
306.	51	0.00E+00	111	4.43E-07	231	0.00E+00	291	8.92E-07
312.	52	1.56E-07	112	0.00E+00	232	1.72E-07	292	0.00E+00
318.	53	0.00E+00	113	4.90E-06	233	0.00E+00	293	0.00E+00
330.	55	6.72E-06	115	5.24E-07	235	0.00E+00	295	0.00E+00

EOCR TEST 13 NRC STAB A 8/14/75 1017-1117 MST

GAS S AVERAGE WINDS: SPEED 2.1 M/S ; DIRECTION 22. DEGREES
SOURCE STRENGTH 0.0581 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M	GLN	100. M	GLN	400. M	GLN	800. M
336.	56	0.00E+00	116	1.02E-07	236	0.00E+00	296	1.09E-07
342.	57	0.00E+00	117	0.00E+00	237	0.00E+00	297	4.18E-07
348.	58	0.00E+00	118	0.00E+00	238	1.14E-07	298	9.72E-08
354.	59	0.00E+00	119	1.34E-06	239	0.00E+00	299	0.00E+00
360.	60	0.00E+00	120	7.41E-07	240	0.00E+00	300	1.53E-07

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.88E-05	620	1.23E-05	630	1.61E-05	640	2.15E-05
7.5	611	0.00E+00	621	2.25E-05	631	1.15E-06	641	0.00E+00
15.0	612	0.00E+00	622	1.46E-05	632	0.00E+00	642	3.24E-06
30.5	614	0.00E+00	624	9.41E-06	634	2.10E-05	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	0.00E+00	660	5.43E-07				
7.5	651	1.77E-06	661	7.01E-07				
15.0	652	1.73E-06	662	0.90E+00				
23.0	653	2.50E-07	663	8.21E-07				
30.5	654	3.52E-07	664	4.09E-07				

EOCR TEST 13 NRC STAB A 8/14/75 1017-1117 MST

GAS B AVERAGE WINDS: SPEED 2.1 M/S ;DIRECTION 22. DEGREES
SOURCE STRENGTH 0.1321 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
72.	12	0.00E+00	72	2.47E-06	192	0.00E+00	252	0.00E+00
78.	13	1.46E-03	73	1.41E-06	193	0.00E+00	253	0.00E+00
84.	14	0.00E+00	74	2.67E-06	194	0.00E+00	254	0.00E+00
96.	16	5.22E-04	76	8.05E-07	196	0.00E+00	256	0.00E+00
108.	18	0.00E+00	78	1.39E-06	198	0.00E+00	258	0.00E+00
114.	19	1.13E-04	79	0.00E+00	199	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	7.11E-06	200	0.00E+00	260	0.00E+00
126.	21	0.00E+00	81	7.93E-07	201	0.00E+00	261	0.00E+00
132.	22	6.72E-05	82	4.54E-06	202	0.00E+00	262	0.00E+00
144.	24	0.00E+00	84	3.06E-06	204	0.00E+00	264	0.00E+00
150.	25	4.03E-05	85	1.02E-06	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	4.09E-06	206	0.00E+00	266	0.00E+00
162.	27	0.00E+00	87	3.17E-06	207	0.00E+00	267	0.00E+00
168.	28	2.17E-05	88	5.29E-06	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	4.47E-06	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	5.41E-06	210	0.00E+00	270	0.00E+00
186.	31	1.10E-05	91	0.00E+00	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	3.73E-06	212	0.00E+00	272	0.00E+00
198.	33	0.00E+00	93	4.07E-06	213	0.00E+00	273	0.00E+00
204.	34	1.50E-05	94	2.40E-06	214	0.00E+00	274	0.00E+00
210.	35	0.00E+00	95	3.71E-06	215	0.00E+00	275	0.00E+00
216.	36	0.00E+00	96	0.00E+00	216	0.00E+00	276	0.00E+00
222.	37	6.51E-06	97	0.00E+00	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	2.33E-06	218	0.00E+00	278	0.00E+00
234.	39	0.00E+00	99	4.06E-06	219	0.00E+00	279	0.00E+00
240.	40	1.29E-05	100	1.72E-07	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	4.62E-06	221	0.00E+00	281	0.00E+00
252.	42	9.01E-06	102	1.77E-06	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	1.77E-06	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	4.58E-06	224	0.00E+00	284	0.00E+00
270.	45	1.20E-05	105	2.05E-06	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	3.69E-06	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	4.57E-06	227	0.00E+00	287	0.00E+00
288.	48	7.45E-06	108	4.57E-06	228	0.00E+00	288	0.00E+00
294.	49	0.00E+00	109	1.35E-06	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	3.55E-06	230	0.00E+00	290	0.00E+00
306.	51	0.00E+00	111	0.00E+00	231	0.00E+00	291	0.00E+00
312.	52	1.35E-05	112	0.00E+00	232	0.00E+00	292	0.00E+00
318.	53	0.00E+00	113	0.02E-07	233	0.00E+00	293	0.00E+00
324.	54	4.32E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
330.	55	6.30E-05	115	0.00E+00	235	0.00E+00	295	0.00E+00
336.	56	6.30E-05	116	0.00E+00	236	0.00E+00	296	0.00E+00

EOCR TEST 13 NRC STAB A 8/14/75 1017-1117 MST

GAS B AVERAGE WINDS: SPEED 2.1 M/S ;DIRECTION 22. DEGREES
SOURCE STRENGTH 0.1321 GM/S RELEASED GROUND

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	5.41E-06	620	4.07E-06	630	5.35E-07	640	0.00E+00
7.5	611	0.00E+00	621	2.64E-06	631	0.00E+00	641	0.00E+00
15.0	612	0.00E+00	622	4.40E-06	632	0.00E+00	642	2.43E-06
30.5	614	0.00E+00	624	6.34E-06	634	6.47E-07	644	0.00E+00

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
7.5	611	0.00E+00	621	2.64E-06
15.0	612	0.00E+00	622	4.40E-06
30.5	614	0.00E+00	624	6.34E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	6.14E-05
702	6.17E-05
703	8.78E-05
704	1.91E-04

EOCR TEST 14 NRC STAB E 5/6/76 0619-0719 MST

GAS S AVERAGE WINDS: SPEED 1.9 M/S ; DIRECTION 47. DEGREES

SOURCE STRENGTH 0.0529 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
102.	17	0.00E+00	77	1.00E-06	197	0.00E+00	257	0.00E+00
120.	20	0.00E+00	80	0.00E+00	200	7.32E-05	260	0.00E+00
126.	21	1.62E-06	81	0.00E+00	201	0.00E+00	261	0.00E+00
150.	25	0.00E+00	85	0.00E+00	205	3.01E-06	265	0.00E+00
162.	27	0.00E+00	87	0.00E+00	207	5.44E-06	267	0.00E+00
168.	28	0.00E+00	88	1.75E-06	208	0.00E+00	268	1.44E-06
174.	29	0.00E+00	89	0.00E+00	209	2.20E-06	269	0.00E+00
180.	30	2.81E-05	90	0.00E+00	210	0.00E+00	270	0.00E+00
186.	31	0.00E+00	91	3.25E-05	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	0.00E+00	212	0.00E+00	272	4.49E-06
198.	33	2.46E-04	93	0.00E+00	213	0.00E+00	273	0.00E+00
204.	34	0.00E+00	94	0.00E+00	214	0.00E+00	274	1.63E-06
210.	35	0.00E+00	95	9.34E-05	215	2.34E-06	275	0.00E+00
216.	36	4.23E-04	96	1.00E-04	216	0.00E+00	276	9.18E-06
222.	37	0.00E+00	97	3.65E-04	217	9.15E-05	277	2.91E-05
228.	38	0.00E+00	98	2.02E-04	218	3.61E-05	278	4.94E-06
234.	39	7.63E-04	99	2.81E-05	219	1.14E-05	279	0.00E+00
240.	40	0.00E+00	100	1.96E-05	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	1.45E-05	221	0.00E+00	281	0.00E+00
252.	42	2.50E-05	102	1.41E-06	222	0.00E+00	282	0.00E+00
264.	44	0.00E+00	104	1.19E-05	224	0.00E+00	284	0.00E+00
270.	45	5.57E-06	105	0.00E+00	225	0.00E+00	285	0.00E+00
300.	50	0.00E+00	110	1.65E-06	230	0.00E+00	290	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
123.	341	1.96E-06	461	0.00E+00				
132.	344	2.30E-06	464	0.00E+00				
153.	351	1.65E-06	471	0.00E+00				
156.	352	4.77E-06	472	0.00E+00				
168.	356	0.00E+00	476	1.63E-06				
183.	361	1.63E-06	481	0.00E+00				
186.	362	1.36E-06	482	0.00E+00				
192.	364	2.83E-06	484	0.00E+00				
216.	372	2.92E-06	492	0.00E+00				
219.	373	6.24E-06	493	4.57E-06				
222.	374	3.29E-05	494	1.71E-05				
225.	375	1.30E-05	495	1.33E-05				
228.	376	0.73E-06	496	1.51E-06				
234.	378	1.37E-06	498	0.00E+00				
237.	379	1.73E-06	499	0.00E+00				

EOCR TEST 14 NRC STAB E 5/6/76 0619-0719 MST

GAS S AVERAGE WINDS: SPEED 1.9 M/S ; DIRECTION 47. DEGREES

SOURCE STRENGTH 0.0529 GM/S RELEASED GROUND

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
7.5	611	0.00E+00	621	2.06E-05	631	0.00E+00	641	0.00E+00
15.0	612	0.00E+00	622	1.42E-05	632	0.00E+00	642	0.00E+00
23.0	613	0.00E+00	623	1.05E-05	633	0.00E+00	643	0.00E+00
30.5	614	0.00E+00	624	5.85E-06	634	0.00E+00	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
7.5	651	1.00E-06	661	0.00E+00				

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
703 9.56E-06

GAS F AVERAGE WINDS: SPEED 3.4 M/S ; DIRECTION 47. DEGREES

SOURCE STRENGTH 2.1438 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
10.	3	8.30E-05	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	9.12E-06	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	1.88E-04	69	0.00E+00	189	0.00E+00	249	0.00E+00
66.	11	0.00E+00	71	2.71E-04	191	0.00E+00	251	0.00E+00
72.	12	3.75E-06	72	1.77E-05	192	0.00E+00	252	0.00E+00
78.	13	0.00E+00	73	5.21E-06	193	0.00E+00	253	0.00E+00
84.	14	0.00E+00	74	1.06E-05	194	0.00E+00	254	0.00E+00
90.	15	1.22E-04	75	6.40E-06	195	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	6.35E-06	196	0.00E+00	256	1.71E-06
102.	17	0.00E+00	77	1.90E-05	197	1.68E-05	257	9.08E-05
108.	18	1.18E-05	78	0.31E-05	198	0.00E+00	258	9.47E-06
114.	19	0.00E+00	79	2.81E-04	199	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	4.00E-05	200	0.00E+00	260	3.76E-06
126.	21	7.08E-05	81	0.00E+00	201	2.38E-05	261	0.00E+00
132.	22	0.00E+00	82	2.36E-05	202	0.00E+00	262	1.36E-05
138.	23	0.00E+00	83	0.00E+00	203	1.20E-05	263	0.00E+00
144.	24	7.28E-06	84	3.54E-04	204	0.00E+00	264	5.90E-06
150.	25	0.00E+00	85	0.00E+00	205	1.71E-03	265	2.96E-05
156.	26	0.00E+00	86	1.15E-04	206	2.63E-05	266	2.01E-05
162.	27	8.34E-05	87	6.00E-04	207	1.01E-03	267	0.00E+00
168.	28	0.00E+00	88	4.35E-04	208	4.05E-04	268	1.89E-04
174.	29	0.00E+00	89	1.34E-05	209	1.02E-03	269	0.00E+00

EOCR TEST 14 NRC STAB E 5/6/76 0619-0719 MST

GAS F AVERAGE WINDS: SPEED 3.4 M/S ; DIRECTION 47. DEGREES

SOURCE STRENGTH 2.1438 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M	100. M	400. M	800. M				
GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
180.	30	1.25E-04	90	2.58E-04	210	0.21E-06	270	1.21E-04
186.	31	0.00E+00	91	3.36E-04	211	5.56E-06	271	4.89E-04
192.	32	0.00E+00	92	8.33E-06	212	1.33E-04	272	3.57E-04
198.	33	3.14E-05	93	0.00E+00	213	6.40E-04	273	8.79E-06
204.	34	0.00E+00	94	4.09E-04	214	9.38E-06	274	6.26E-04
210.	35	0.00E+00	95	0.00E+00	215	3.71E-05	275	8.62E-06
216.	36	1.53E-04	96	2.16E-04	216	0.00E+00	276	1.49E-05
222.	37	0.00E+00	97	8.31E-05	217	8.21E-05	277	3.05E-05
228.	38	0.00E+00	98	6.20E-04	218	2.78E-05	278	4.13E-04
234.	39	0.00E+00	99	1.21E-03	219	1.34E-05	279	8.20E-05
240.	40	0.00E+00	100	1.12E-03	220	2.99E-05	280	8.79E-06
246.	41	0.00E+00	101	2.73E-05	221	0.00E+00	281	2.69E-04
252.	42	0.00E+00	102	7.94E-06	222	0.49E-06	282	3.07E-04
258.	43	0.00E+00	103	0.00E+00	223	2.92E-04	283	0.00E+00
264.	44	0.00E+00	104	2.66E-04	224	1.46E-05	284	1.19E-04
270.	45	4.05E-05	105	3.14E-04	225	2.68E-05	285	1.42E-05
276.	46	0.00E+00	106	5.27E-04	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	9.92E-04	227	0.00E+00	287	0.00E+00
288.	48	2.55E-04	108	5.49E-04	228	0.00E+00	288	0.00E+00
294.	49	0.00E+00	109	2.92E-05	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	2.49E-04	230	0.00E+00	290	0.00E+00
306.	51	1.35E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	5.72E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	3.67E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	3.39E-05	120	0.00E+00	240	0.00E+00	300	0.00E+00
BEARING	1200. M	1600. M						
GLN	CONC	GLN	CONC					
123.	341	7.92E-04	461	1.60E-04				
126.	342	4.68E-06	462	1.04E-05				
129.	343	1.48E-04	463	2.63E-04				
132.	344	1.06E-03	464	1.34E-04				
135.	345	0.00E+00	465	3.38E-04				
138.	346	2.01E-05	466	1.05E-04				
141.	347	0.00E+00	467	5.90E-05				
144.	348	1.66E-04	468	2.08E-05				
147.	349	9.63E-04	469	2.05E-04				
150.	350	5.63E-05	470	2.91E-04				
153.	351	4.68E-04	471	2.22E-04				
156.	352	1.57E-03	472	4.62E-04				
159.	353	0.00E+00	473	7.04E-05				
162.	354	9.48E-05	474	6.97E-06				
165.	355	1.32E-05	475	6.51E-06				
168.	356	3.23E-06	476	5.93E-04				

EOCR TEST 14 NRC STAB E 5/6/76 0619-0719 MST

GAS F AVERAGE WINDS: SPEED 3.4 M/S ; DIRECTION 47. DEGREES

SOURCE STRENGTH 2.1438 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
171.	357	2.58E-04	477	0.00E+00
174.	358	6.98E-04	478	3.92E-05
177.	359	6.05E-05	479	0.00E+00
180.	360	6.07E-05	480	0.00E+00
183.	361	1.11E-03	481	9.05E-07
186.	362	4.78E-05	482	6.19E-06
189.	363	2.23E-03	483	4.37E-06
192.	364	5.56E-04	484	5.94E-05
195.	365	7.06E-04	485	7.00E-06
198.	366	8.48E-05	486	0.00E+00
201.	367	5.08E-04	487	2.55E-05
204.	368	5.73E-05	488	6.05E-05
207.	369	8.06E-06	489	0.00E+00
210.	370	4.89E-05	490	6.25E-04
213.	371	3.25E-05	491	2.13E-04
216.	372	4.69E-04	492	2.07E-05
219.	373	1.04E-04	493	2.03E-03
222.	374	1.10E-04	494	2.22E-05
225.	375	7.98E-04	495	1.41E-05
228.	376	3.33E-05	496	6.06E-06
231.	377	2.06E-05	497	1.67E-03
234.	378	1.23E-03	498	6.17E-05
237.	379	8.99E-04	499	1.06E-03
240.	380	1.25E-04	500	6.93E-05

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	2.58E-04	620	0.00E+00	630	0.00E+00	640	0.00E+00
7.5	611	9.67E-05	621	2.49E-05	631	1.81E-04	641	4.91E-04
15.0	612	8.98E-05	622	5.96E-05	632	2.47E-05	642	1.66E-05
23.0	613	6.12E-04	623	5.16E-05	633	0.00E+00	643	1.11E-06
30.5	614	4.34E-05	624	6.90E-05	634	9.96E-05	644	3.49E-04
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	0.211E-06	660	6.40E-04				
7.5	651	4.03E-04	661	0.00E+00				
15.0	652	2.90E-05	662	0.00E+00				
23.0	653	5.93E-04	663	0.00E+00				
30.5	654	3.30E-05	664	0.00E+00				

EOCR TEST 14 NRC STAB E 5/6/76 0619-0719 MST

GAS F AVERAGE WINDS: SPEED 3.4 M/S ;DIRECTION 47. DEGREES
SOURCE STRENGTH 2.1438 GM/S RELEASED STACK

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
701 3.47E-04
703 5.10E-05
704 1.89E-05

GAS B AVERAGE WINDS: SPEED 3.3 M/S ;DIRECTION 47. DEGREES
SOURCE STRENGTH 0.1459 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M	100. M	400. M	800. M
	GLN CONC	GLN CONC	GLN CONC	GLN CONC
36.	6 6.55E-05	66 0.00E+00	186 0.00E+00	245 0.00E+00
96.	16 0.00E+00	76 7.90E-05	196 0.00E+00	256 0.00E+00
108.	18 2.67E-05	78 0.00E+00	198 0.00E+00	258 0.00E+00
126.	21 0.00E+00	81 3.95E-05	201 0.00E+00	261 0.00E+00
174.	29 0.00E+00	89 0.00E+00	209 1.11E-05	269 0.00E+00
186.	31 0.00E+00	91 0.38E-07	211 0.00E+00	271 0.00E+00
192.	32 0.00E+00	92 0.00E+00	212 3.65E-05	272 1.12E-05
198.	33 6.18E-05	93 0.00E+00	213 0.00E+00	273 0.00E+00
210.	35 0.00E+00	95 6.91E-05	215 0.00E+00	275 1.66E-05
216.	36 6.64E-05	96 1.11E-04	216 0.00E+00	276 0.00E+00
222.	37 0.00E+00	97 1.06E-04	217 4.14E-05	277 7.56E-06
226.	38 0.00E+00	98 2.06E-05	218 0.00E+00	278 0.00E+00
252.	42 0.00E+00	102 2.61E-05	222 0.00E+00	282 0.00E+00
BEARING	1200. M	1600. M		
	GLN CONC	GLN CONC		
123.	341 0.00E+00	451 4.64E-06		
132.	344 0.00E+00	464 0.57E-05		
135.	345 5.84E-06	465 0.00E+00		
141.	347 0.00E+00	467 7.83E-06		
147.	349 0.00E+00	469 6.00E-05		
159.	353 0.00E+00	473 7.78E-06		
162.	354 0.00E+00	474 1.47E-04		
174.	358 0.00E+00	478 1.31E-05		
186.	362 0.00E+00	482 7.49E-06		
192.	364 4.69E-05	484 1.49E-04		
195.	365 0.00E+00	485 7.33E-06		
198.	366 0.00E+00	486 1.39E-05		
219.	373 1.06E-05	493 0.00E+00		
222.	374 1.28E-04	494 0.00E+00		
225.	375 0.00E+00	495 1.02E-05		
240.	380 0.00E+00	500 2.46E-05		

EOCR TEST 14 NRC STAB E 5/6/76 0619-0719 MST

GAS B AVERAGE WINDS: SPEED 3.3 M/S ;DIRECTION 47. DEGREES
SOURCE STRENGTH 0.1459 GM/S RELEASED ROOF

TOWER SAMPLES

HEIGHT	TOWER 1	TOWER 2	TOWER 3	TOWER 4
	GLN CONC	GLN CONC	GLN CONC	GLN CONC
7.5	611 0.00E+00	621 2.20E-05	631 0.00E+00	641 0.00E+00
15.0	612 0.00E+00	622 3.09E-05	632 0.00E+00	642 0.00E+00
23.0	613 0.00E+00	623 3.62E-05	633 0.00E+00	643 0.00E+00
30.5	614 0.00E+00	624 0.00E-05	634 0.00E+00	644 0.00E+00
HEIGHT	TOWER 5	TOWER 6		
	GLN CONC	GLN CONC		

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
703 1.23E-04
704 0.01E-05

EOCR TEST 15 NRC STAB D 5/12/76 0618-0718 MST

GAS S AVERAGE WINDS: SPEED 2.0 M/S ; DIRECTION 20. DEGREES
SOURCE STRENGTH 0.1533 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	7.19E-04	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	2.18E-03	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	3.54E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	3.21E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	3.57E-03	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	18	1.86E-03	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	2.22E-03	81	0.00E+00	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	1.44E-05	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	4.18E-05	203	0.00E+00	263	0.00E+00
144.	24	1.84E-03	84	3.36E-04	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	5.36E-04	205	5.81E-05	265	0.00E+00
156.	26	0.00E+00	86	2.01E-05	206	1.90E-05	266	0.00E+00
162.	27	1.78E-03	87	4.37E-04	207	1.98E-05	267	2.54E-05
168.	28	0.00E+00	88	2.20E-04	208	3.86E-05	268	5.14E-05
174.	29	0.00E+00	89	6.12E-04	209	0.00E+00	269	2.11E-05
180.	30	1.19E-03	90	6.34E-04	210	2.62E-05	270	6.36E-06
186.	31	0.00E+00	91	5.29E-04	211	9.96E-06	271	4.04E-06
192.	32	0.00E+00	92	6.6E-04	212	0.00E+00	272	2.15E-05
198.	33	5.67E-04	93	6.15E-05	213	6.03E-05	273	6.81E-06
204.	34	0.00E+00	94	6.03E-05	214	6.74E-05	274	2.58E-05
210.	35	0.00E+00	95	1.93E-04	215	1.38E-05	275	1.22E-05
216.	35	4.16E-04	96	7.54E-05	216	3.13E-05	276	0.00E+00
222.	37	0.00E+00	97	1.10E-04	217	2.60E-06	277	0.00E+00
228.	38	0.00E+00	98	8.49E-05	218	0.00E+00	278	0.00E+00
234.	39	1.30E-04	99	8.04E-05	219	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	1.26E-06	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	1.37E-05	221	0.00E+00	281	0.00E+00
252.	42	1.20E-05	102	0.00E+00	222	0.00E+00	282	0.00E+00
258.	45	7.63E-05	105	0.00E+00	225	0.00E+00	285	0.00E+00
264.	48	9.95E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
268.	51	3.71E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00
274.	54	6.37E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
280.	57	6.06E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
286.	60	5.73E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
162.	354	2.27E-06	474	0.00E+00				
168.	356	3.86E-06	476	8.69E-07				
171.	357	2.55E-06	477	1.63E-06				
174.	358	9.18E-07	478	1.06E-06				
177.	359	2.42E-06	479	0.00E+00				
180.	360	2.42E-06	480	0.00E+00				
183.	361	0.00E+00	481	2.22E-06				

EOCR TEST 15 NRC STAB D 5/12/76 0618-0718 MST

GAS S AVERAGE WINDS: SPEED 2.0 M/S ; DIRECTION 20. DEGREES
SOURCE STRENGTH 0.1533 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M			
	GLN	CONC	GLN	CONC		
186.	362	0.00E+00	482	2.14E-06		
189.	363	0.00E+00	483	2.22E-06		
192.	364	0.00E+00	484	1.39E-06		
195.	365	8.09E-06	485	2.89E-06		
198.	366	3.03E-06	486	5.78E-06		
201.	367	1.06E-05	487	6.98E-06		
204.	368	7.77E-06	488	3.98E-06		
207.	369	9.75E-06	489	0.00E+00		
210.	370	4.22E-06	490	6.18E-06		
213.	371	1.84E-06	491	0.00E+00		
216.	372	0.00E+00	492	1.21E-06		
219.	373	0.00E+00	493	5.39E-07		
222.	374	1.02E-06	494	6.06E-07		

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	6.34E-04	620	8.15E-05	630	0.00E+00	640	0.00E+00
7.5	611	1.63E-04	621	0.00E+00	631	2.63E-05	641	1.29E-04
15.0	612	0.00E+00	622	0.00E+00	632	0.00E+00	642	8.98E-05
23.0	613	5.62E-05	623	0.00E+00	633	0.00E+00	643	7.69E-07
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	2.62E-05	660	6.83E-05				
7.5	651	0.00E+00	661	6.14E-05				
15.0	652	1.59E-05	662	3.56E-05				
23.0	653	1.16E-05	663	2.67E-05				
30.5	654	1.28E-05	664	3.46E-05				

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	8.69E-04
702	6.96E-04
703	8.93E-04
704	4.86E-06

EOCR TEST 15 NRC STAB D 5/12/76 0618-0718 MST

GAS F AVERAGE WINDS: SPEED 4.9 M/S ; DIRECTION 22. DEGREES
SOURCE STRENGTH 1.5907 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
132.	22	0.00E+00	82	1.09E-05	202	1.57E-05	262	1.97E-05
138.	23	0.00E+00	83	1.64E-06	203	1.19E-05	263	0.00E+00
144.	24	7.78E-05	84	0.00E+00	204	1.23E-05	264	1.19E-05
150.	25	0.00E+00	85	0.00E+00	205	3.09E-05	265	0.00E+00
156.	26	0.00E+00	86	3.38E-05	206	0.00E+00	266	0.00E+00
162.	27	0.00E+00	87	2.58E-04	207	1.47E-05	267	3.28E-05
168.	28	0.00E+00	88	1.53E-04	208	5.43E-05	268	0.00E+00
174.	29	0.00E+00	89	3.83E-04	209	1.89E-05	269	0.00E+00
180.	30	0.00E+00	90	3.36E-04	210	4.96E-05	270	3.58E-05
186.	31	0.00E+00	91	2.89E-04	211	5.89E-06	271	4.48E-05
192.	32	0.00E+00	92	2.38E-04	212	1.56E-05	272	0.00E+00
198.	33	1.74E-04	93	2.06E-04	213	0.39E-05	273	3.39E-05
204.	34	0.00E+00	94	5.81E-05	214	1.18E-04	274	4.36E-05
210.	35	0.00E+00	95	1.70E-04	215	5.10E-05	275	3.08E-05
216.	35	0.00E+00	95	9.95E-05	216	7.43E-05	276	1.23E-05
222.	37	0.00E+00	97	6.98E-06	217	2.13E-06	277	0.00E+00
228.	38	0.00E+00	98	0.00E+00	218	0.00E+00	278	9.72E-05
234.	39	0.00E+00	99	4.09E-05	219	9.65E-06	279	0.00E+00
240.	40	0.00E+00	100	2.73E-05	220	0.00E+00	280	1.15E-05
246.	41	0.00E+00	101	0.00E+00	221	1.55E-05	281	6.45E-06
252.	42	8.41E-05	102	0.00E+00	222	0.00E+00	282	0.00E+00
258.	51	2.56E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
123.	341	2.72E-06	461	0.00E+00				
126.	342	1.07E-05	462	0.00E+00				
129.	343	0.00E+00	463	4.04E-05				
132.	344	7.48E-06	464	0.00E+00				
135.	345	0.00E+00	465	1.17E-05				
138.	346	1.04E-05	466	5.90E-06				
141.	347	1.68E-05	467	1.11E-05				
144.	348	0.00E+00	468	1.17E-05				
147.	349	7.91E-06	469	1.35E-05				
150.	350	2.41E-05	470	0.00E+00				
156.	352	1.43E-05	472	1.34E-05				
159.	353	0.00E+00	473	8.79E-06				
162.	354	9.82E-06	474	0.00E+00				
168.	356	1.43E-05	476	8.47E-06				
171.	357	1.28E-05	477	1.47E-05				
174.	358	0.00E+00	478	1.18E-05				
177.	359	1.32E-05	479	1.48E-05				
180.	360	1.29E-05	480	4.24E-05				
183.	361	0.00E+00	481	1.54E-05				

EOCR TEST 15 NRC STAB D 5/12/76 0618-0718 MST

GAS F AVERAGE WINDS: SPEED 4.9 M/S ; DIRECTION 22. DEGREES
SOURCE STRENGTH 1.5907 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M

EOCR TEST 15 NRC STAB D 5/12/76 0618-0718 MST

GAS B AVERAGE WINDS: SPEED 4.8 M/S ; DIRECTION 22. DEGREES
SOURCE STRENGTH 0.1706 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
108.	18	1.81E-04	76	0.00E+00	193	0.00E+00	258	0.00E+00
125.	21	7.63E-05	81	0.00E+00	201	0.00E+00	261	0.00E+00
144.	24	1.03E-04	84	0.00E+00	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	1.61E-05	205	0.00E+00	265	0.00E+00
162.	27	2.02E-04	87	5.55E-05	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	1.49E-04	208	0.00E+00	268	2.16E-05
174.	29	0.00E+00	89	1.55E-04	209	3.51E-06	269	0.00E+00
180.	30	3.51E-04	90	1.63E-04	210	0.00E+00	270	9.67E-06
186.	31	0.00E+00	91	1.67E-04	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	4.21E-04	212	0.00E+00	272	0.00E+00
198.	33	7.48E-04	93	1.81E-04	213	0.00E+00	273	0.00E+00
204.	34	0.00E+00	94	7.71E-06	214	6.65E-05	274	0.00E+00
210.	35	0.00E+00	95	3.18E-04	215	0.00E+00	275	6.65E-06
216.	36	8.49E-05	96	1.83E-05	216	0.00E+00	276	0.00E+00
238.	38	0.00E+00	98	2.24E-05	218	0.00E+00	278	0.00E+00
234.	39	1.46E-05	99	1.26E-05	219	0.00E+00	279	0.00E+00
208.	48	3.18E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
135.	345	2.25E-05	465	0.00E+00				
147.	349	0.00E+00	469	1.13E-04				
150.	350	0.00E+00	470	4.90E-05				
159.	353	0.00E+00	473	0.57E-05				
162.	354	3.52E-05	474	0.00E+00				
165.	355	5.22E-06	475	0.00E+00				
171.	357	0.00E+00	477	1.99E-04				
174.	358	1.53E-05	478	1.87E-06				
180.	360	0.00E+00	480	5.06E-05				
183.	361	5.66E-06	481	0.00E+00				
186.	362	0.00E+00	482	1.95E-05				
195.	365	0.00E+00	485	3.22E-05				
198.	366	0.00E+00	486	3.31E-05				
201.	367	0.00E+00	487	1.92E-04				
204.	368	1.36E-05	488	0.00E+00				
219.	373	0.00E+00	493	1.92E-05				
222.	374	1.46E-05	494	0.00E+00				
240.	380	0.00E+00	500	1.68E-04				

EOCR TEST 15 NRC STAB D 5/12/76 0618-0718 MST

GAS B AVERAGE WINDS: SPEED 4.8 M/S ; DIRECTION 22. DEGREES
SOURCE STRENGTH 0.1706 GM/S RELEASED ROOF

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.63E-04	620	1.81E-04	630	0.00E+00	640	0.00E+00
7.5	611	6.95E-05	621	0.00E+00	631	9.24E-04	641	2.84E-04
15.0	612	0.00E+00	622	0.00E+00	632	1.04E-03	642	5.60E-05
23.0	613	9.47E-05	623	0.00E+00	633	9.21E-04	643	1.69E-04
30.5	614	0.00E+00	624	0.00E+00	634	0.00E+00	644	2.28E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
7.5	651	0.00E+00	661	3.12E-05				
15.0	652	8.07E-05	662	1.38E-04				
23.0	653	9.94E-05	663	6.37E-05				
30.5	654	3.22E-05	664	2.31E-04				

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
702 7.90E-04
703 8.12E-05

EOCR TEST 16 NRC STAB D 5/18/76 0616-0716 MST

GAS S AVERAGE WINDS: SPEED 3.1 M/S ; DIRECTION 25. DEGREES
SOURCE STRENGTH 0.1593 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	1.39E-04	63	0.00E+00	193	0.00E+00	243	0.00E+00
36.	6	2.99E-03	66	0.00E+00	195	0.00E+00	245	0.00E+00
54.	9	7.10E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	4.65E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00
76.	13	0.00E+00	73	2.40E-06	193	0.00E+00	253	0.00E+00
90.	15	4.36E-03	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	18	2.67E-03	78	0.00E+00	199	0.00E+00	259	0.00E+00
126.	20	0.00E+00	80	1.24E-05	200	0.00E+00	260	0.00E+00
132.	21	1.98E-03	81	7.22E-05	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	2.51E-04	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	4.60E-04	203	1.83E-06	263	0.00E+00
144.	24	2.49E-03	84	6.63E-04	204	4.45E-06	264	0.00E+00
150.	25	0.00E+00	85	7.46E-04	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	6.06E-04	206	2.26E-05	266	2.63E-06
162.	27	1.79E-03	87	4.90E-04	207	1.63E-05	267	4.71E-06
168.	28	0.00E+00	88	6.37E-06	208	1.85E-05	268	3.75E-06
174.	29	0.00E+00	89	7.20E-04	209	4.52E-07	269	4.22E-06
180.	30	1.39E-03	90	6.70E-04	210	3.05E-05	270	7.06E-06
186.	31	0.00E+00	91	5.77E-04	211	4.53E-05	271	9.50E-07
192.	32	0.00E+00	92	5.51E-04	212	2.62E-05	272	9.29E-06
198.	33	1.09E-03	93	3.85E-04	213	2.69E-05	273	1.26E-05
204.	34	0.00E+00	94	1.60E-04	214	3.99E-05	274	2.71E-06
210.	35	0.00E+00	95	4.55E-04	215	5.89E-05	275	1.24E-05
216.	36	7.09E-04	96	2.24E-04	216	4.94E-05	276	3.78E-06
222.	37	0.00E+00	97	2.29E-04	217	2.15E-05	277	0.00E+00
228.	38	0.00E+00	98	8.60E-05	218	5.70E-06	278	0.00E+00
234.	39	9.14E-05	99	4.47E-06	219	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	1.06E-04	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	6.49E-05	221	0.00E+00	281	0.00E+00
252.	42	1.99E-04	102	3.76E-05	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	1.29E-05	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	5.50E-06	224	0.00E+00	284	0.00E+00
270.	45	6.33E-05	105	0.00E+00	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	1.04E-06	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	0.00E+00	227	0.00E+00	287	0.00E+00
288.	48	5.09E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
294.	49	1.07E-06	109	0.00E+00	229	0.00E+00	289	0.00E+00
300.	50	6.03E-05	110	0.00E+00	230	0.00E+00	290	0.00E+00
306.	51	1.20E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
312.	52	0.00E+00	112	0.00E+00	232	0.00E+00	292	0.00E+00
318.	53	0.00E+00	113	0.00E+00	233	0.00E+00	293	0.00E+00
324.	54	0.00E+00	114	0.00E+00	234	0.00E+00	294	0.00E+00
330.	55	0.00E+00	115	0.00E+00	235	0.00E+00	295	0.00E+00
336.	56	0.00E+00	116	0.00E+00	236	0.00E+00	296	0.00E+00
342.	57	1.20E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
348.	58	0.00E+00	118	0.00E+00	238	0.00E+00	298	0.00E+00
354.	59	0.00E+00	119	0.00E+00	239	0.00E+00	299	0.00E+00
360.	60	0.00E+00	120	0.00E+00	240	0.00E+00	300	0.00E+00

EOCR TEST 16 NRC STAB D 5/18/76 0616-0716 MST

GAS F AVERAGE WINDS: SPEED 3.1 M/S ; DIRECTION 25. DEGREES
SOURCE STRENGTH 0.1593 GM/S RELEASED GROUND

MISCELLANEOUS SAMPLES

GROUP 1

GLN	CONC
701	1.58E-03
702	3.01E-04
703	2.22E-04
704	1.68E-03

GAS F AVERAGE WINDS: SPEED 3.7 M/S ; DIRECTION 30. DEGREES
SOURCE STRENGTH 1.6086 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	1.25E-04	63	0.00E+00	193	0.00E+00	243	0.00E+00
36.	6	0.00E+00	71	0.91E-06	191	0.00E+00	251	0.00E+00
54.	9	0.00E+00	72	1.27E-05	192	0.00E+00	252	0.00E+00
72.	12	0.00E+00	73	1.51E-05	193	0.00E+00	253	0.00E+00
76.	13	0.00E+00	76	5.59E-06	196	0.00E+00	256	0.00E+00
90.	15	0.00E+00	77	3.43E-06	197	0.00E+00	257	0.00E+00
108.	18	0.00E+00	79	2.07E-05	198	0.00E+00	258	0.00E+00
126.	20	0.00E+00	80	9.31E-06	200	0.00E+00	260	0.00E+00
132.	22	0.00E+00	82	0.00E+00	202	0.00E+00	262	1.39E-05
144.	24	0.00E+00	84	6.84E-05	204	5.22E-06	264	3.16E-06
150.	25	0.00E+00	85	1.06E-04	205	7.04E-05	265	4.03E-06
156.	26	0.00E+00	86	0.00E+00	206	6.27E-05	266	1.67E-06
162.	27	0.00E+00	87	6.48E-05	207	1.06E-05	267	0.00E+00
168.	28	0.00E+00	88	1.25E-04	208	2.28E-05	268	2.01E-05
174.	29	0.00E+00	89	9.31E-05	209	1.78E-05	269	1.56E-05
180.	30	1.17E-04	90	1.52E-04	210	6.37E-05	270	6.48E-06
186.	31	0.00E+00	91	4.39E-04	211	2.60E-05	271	0.00E+00
192.	32	0.00E+00	92	2.05E-04	212	7.39E-05	272	4.97E-05
198.	33	1.17E-04	93	5.17E-04	213	2.07E-05	273	0.00E+00
204.	34	0.00E+00	94	1.33E-04	214	9.26E-05	274	1.43E-05
210.	35	0.00E+00	95	3.89E-04	215	3.79E-05	275	2.69E-05
216.	36	0.00E+00	96	7.66E-05	216	2.91E-05	276	2.37E-05
222.	37	0.00E+00	97	1.29E-04	217	4.61E-05	277	0.00E+00
228.	38	0.00E+00	98	2.22E-05	218	0.00E+00	278	0.00E+00
234.	39	1.18E-04	99	2.33E-04	219	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	0.00E+00	220	1.32E-05	280	9.92E-05
246.	41	0.00E+00	101	0.00E+00	221	0.00E+00	281	2.26E-05
252.	42	0.00E+00	102	1.07E-05	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	1.63E-05	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	3.01E-05	224	0.00E+00	284	0.00E+00
270.	45	0.00E+00	105	4.27E-06	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	0.00E+00	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	0.00E+00	227	0.00E+00	287	0.00E+00
288.	48	0.00E+00	108	0.00E+00	228	0.00E+00	288	0.00E+00

EOCR TEST 16 NRC STAB D 5/18/76 0616-0716 MST

GAS S AVERAGE WINDS: SPEED 3.1 M/S ; DIRECTION 25. DEGREES
SOURCE STRENGTH 0.1593 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
123.	341	1.20E-05	461	0.00E+00
126.	342	0.00E+00	462	3.00E-06
147.	349	0.00E+00	469	1.15E-05
156.	352	0.50E-07	472	0.00E+00
159.	353	6.00E-07	473	0.00E+00
165.	355	2.13E-06	475	0.00E+00
169.	356	7.35E-06	476	0.00E+00
171.	357	9.00E-06	477	6.56E-06
174.	358	5.13E-06	479	3.20E-06
177.	359	0.00E+00	479	1.19E-05
180.	360	2.01E-06	480	9.37E-05
183.	361	4.79E-06	481	5.52E-06
186.	362	4.32E-06	482	0.00E+00
189.	363	2.37E-06	483	4.23E-06
195.	365	6.47E-06	485	7.84E-07
198.	366	8.10E-06	486	6.98E-06
201.	367	9.22E-06	487	0.00E+00
204.	368	5.72E-06	488	4.61E-06
207.	369	5.49E-06	489	8.61E-06
210.	370	6.73E-06	490	3.46E-06
213.	371	7.80E-06	491	0.00E+00
216.	372	1.36E-06	492	3.45E-05
219.	373	4.52E-07	493	0.00E+00
222.	374	1.23E-06	494	0.00E+00
248.	380	0.00E+00	500	9.36E-07

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	6.70E-04	620	3.85E-04	630	0.00E+00	640	0.00E+00
7.5	611	4.70E-04	621	2.84E-06	631	9.39E-05	641	1.57E-04
15.0	612	2.65E-04	622	2.43E-06	632	1.03E-04	642	1.34E-04
23.0	613	1.20E-04	623	5.31E-06	633	0.00E+00	643	0.00E+00
30.5	614	0.55E-05	624	0.00E+00	634	9.57E-05	644	9.54E-06
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	3.05E-05	660	2.69E-05				
7.5	651	3.12E-05	661	3.17E-05				
15.0	652	3.51E-05	662	3.51E-05				
23.0	653	3.99E-05	663	0.00E+00				
30.5	654	2.31E-05	664	2.92E-05				

EOCR TEST 16 NRC STAB D 5/18/76 0616-0716 MST

GAS F AVERAGE WINDS: SPEED 3.7 M/S ; DIRECTION 30. DEGREES
SOURCE STRENGTH 1.6086 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
294.	49	0.00E+00	109	4.61E-06	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	9.38E-06	230	0.00E+00	290	0.00E+00
305.	51	1.11E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
123.	341	3.52E-06	461	0.00E+00				
126.	342	0.00E+00	462	2.86E-05				
129.	343	4.71E-06	463	1.54E-05				
135.	345	3.49E-06	465	0.00E+00				
138.	346	0.00E+00	466	3.87E-06				
141.	347	1.64E-05	467	0.00E+00				
144.	348	0.00E+00	468	1.46E-05				
147.	349	1.47E-05	469	0.00E+00				
153.	351	1.66E-05	471	0.00E+00				
156.	352	0.00E+00	472	1.26E-05				
159.	353	1.40E-05	473	1.31E-04				
168.	356	1.84E-05	476	0.00E+00				
171.	357	4.72E-06	477	3.92E-05				
174.	358	9.41E-06	478	8.76E-06				
177.	359	0.00E+00	479	1.15E-05				
183.	361	1.79E-05	481	0.00E+00				
186.	362	0.00E+00	482	3.66E-06				
189.	363	1.97E-05	483	0.00E+00				
192.	364	0.00E+00	484	1.77E-05				
196.	366	3.37E-05	486	3.35E-05				
204.	368	4.25E-05	488	0.00E+00				
210.	370	2.35E-05	490	0.00E+00				
216.	372	6.77E-05	492	8.32E-06				
222.	374	1.60E-05	494	0.00E+00				
225.	375	3.69E-06	495	0.00E+00				
228.	376	1.39E-05	496	0.00E+00				
231.	377	0.00E+00	497	9.60E-06				
234.	378	1.75E-05	498	0.00E+00				
237.	379	0.00E+00	499	5.76E-06				
240.	380	8.52E-07	500	1.43E-05				

EOCR TEST 16 NRC STAB D 5/18/76 0616-0716 MST

GAS F AVERAGE WINDS: SPEED 3.7 M/S ;DIRECTION 30. DEGREES
SOURCE STRENGTH 1.6056 GM/S RELEASED STACK

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.52E-04	620	5.17E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.97E-04	621	4.69E-05	631	2.37E-04	641	3.57E-04
15.0	612	2.56E-04	622	1.12E-04	632	1.31E-04	642	9.93E-05
23.0	613	4.19E-04	623	1.31E-04	633	9.30E-04	643	1.10E-03
30.5	614	1.94E-04	624	2.33E-05	634	1.09E-04	644	1.53E-04
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	6.37E-05	660	2.07E-05				
7.5	651	9.79E-05	661	4.25E-05				
15.0	652	5.69E-05	662	4.25E-05				
23.0	653	1.71E-05	663	1.79E-04				
30.5	654	4.25E-05	664	7.35E-05				

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC

GAS B AVERAGE WINDS: SPEED 3.6 M/S ;DIRECTION 30. DEGREES
SOURCE STRENGTH 0.6959 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		600. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
35.	6	4.57E-06	66	0.00E+00	186	0.00E+00	246	0.00E+00
72.	12	1.40E-07	72	0.00E+00	192	0.00E+00	252	0.00E+00
15.	15	7.07E-06	75	0.00E+00	195	0.00E+00	255	0.00E+00
106.	18	1.71E-05	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	2.42E-05	81	3.10E-06	201	0.00E+00	261	0.00E+00
138.	23	0.00E+00	83	6.53E-06	203	6.42E-03	263	5.97E-03
144.	24	1.36E-04	84	3.11E-05	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	7.13E-05	205	4.52E-06	265	0.00E+00
156.	26	0.00E+00	86	6.30E-05	206	3.96E-05	266	1.26E-07
162.	27	1.62E-04	87	3.98E-05	207	6.33E-06	267	0.00E+00
168.	28	0.00E+00	88	5.60E-07	208	4.55E-05	268	0.00E+00
174.	29	0.00E+00	89	1.24E-04	209	7.02E-06	269	0.00E+00
180.	30	2.63E-04	90	1.61E-04	210	9.15E-06	270	1.22E-06
186.	31	0.00E+00	91	1.97E-04	211	2.00E-05	271	3.00E-03
192.	32	0.00E+00	92	1.09E-04	212	1.05E-05	272	1.44E-06
198.	33	2.43E-04	93	1.44E-04	213	2.11E-05	273	2.72E-05
204.	34	0.00E+00	94	9.11E-05	214	1.05E-05	274	0.00E+00
210.	35	0.00E+00	95	1.69E-04	215	2.63E-05	275	5.32E-06

EOCR TEST 16 NRC STAB D 5/18/76 0616-0716 MST

GAS B AVERAGE WINDS: SPEED 3.6 M/S ;DIRECTION 30. DEGREES
SOURCE STRENGTH 0.6959 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		600. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
216.	36	9.42E-05	96	5.25E-05	216	1.68E-05	276	9.12E-07
222.	37	0.00E+00	97	3.19E-05	217	5.19E-05	277	0.00E+00
228.	38	0.00E+00	98	7.79E-06	218	0.00E+00	278	0.00E+00
240.	40	0.00E+00	100	2.41E-07	220	0.00E+00	280	0.00E+00
252.	42	6.56E-07	102	3.34E-06	222	0.00E+00	282	0.00E+00
270.	45	0.00E+00	105	5.10E-07	225	0.00E+00	285	0.00E+00
282.	47	0.00E+00	107	9.26E-07	227	0.00E+00	287	0.00E+00
288.	48	6.13E-06	108	0.00E+00	228	0.00E+00	288	0.00E+00
324.	54	4.06E-07	114	0.00E+00	234	0.00E+00	294	0.00E+00
360.	60	1.03E-07	120	0.00E+00	240	0.00E+00	300	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
147.	349	0.00E+00	469	1.19E-05				
150.	350	1.24E-07	470	5.81E-06				
156.	352	3.04E-07	472	0.00E+00				
162.	354	4.71E-06	474	0.00E+00				
171.	357	0.00E+00	477	1.79E-06				
174.	358	9.46E-07	478	6.65E-07				
177.	359	0.00E+00	479	2.33E-06				
180.	360	2.66E-07	480	5.12E-05				
183.	361	1.02E-06	481	2.46E-06				
186.	362	3.16E-06	482	1.30E-05				
189.	363	0.00E+00	483	4.51E-05				
192.	364	0.00E+00	484	5.64E-05				
195.	365	7.92E-07	485	4.04E-06				
198.	366	1.02E-06	486	2.14E-06				
201.	367	7.20E-07	487	0.00E+00				
204.	368	2.96E-06	488	1.62E-06				
207.	369	3.22E-06	489	2.71E-05				
210.	370	7.39E-07	490	4.08E-07				
213.	371	3.54E-05	491	0.00E+00				
219.	373	6.65E-07	493	1.31E-05				
222.	374	5.20E-06	494	2.50E-06				
228.	376	0.00E+00	496	7.62E-07				
231.	377	7.79E-08	497	0.00E+00				
234.	378	0.00E+00	498	7.10E-06				

EOCR TEST 16 NRC STAB D 5/18/76 0616-0716 MST

GAS B AVERAGE WINDS: SPEED 3.6 M/S ;DIRECTION 30. DEGREES
SOURCE STRENGTH 0.6959 GM/S RELEASED ROOF

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.61E-04	620	1.44E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.79E-04	621	4.82E-05	631	5.06E-05	641	7.09E-05
15.0	612	1.92E-04	622	2.71E-05	632	4.05E-05	642	7.44E-05
23.0	613	1.34E-04	623	2.07E-05	633	0.00E+00	643	9.42E-06
30.5	614	9.05E-05	624	0.00E+00	634	2.74E-05	644	8.18E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	9.15E-06	660	2.11E-05				
7.5	651	1.59E-05	661	1.88E-05				
15.0	652	1.07E-05	662	1.92E-05				
23.0	653	3.50E-05	663	0.00E+00				
30.5	654	5.96E-05	664	4.26E-05				

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC

702 4.70E-05
703 6.95E-06
704 6.21E-04

EOCR TEST 17 NRC STAB G 5/21/76 0451-0551 MST

GAS S AVERAGE WINDS: SPEED 1.1 M/S ; DIRECTION 342. DEGREES
SOURCE STRENGTH 0.1688 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M CONC	GLN	100. M CONC	GLN	400. M CONC	GLN	800. M CONC
18.	3	1.97E-03	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	7.17E-04	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	2.39E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
66.	11	0.00E+00	71	1.16E-06	191	0.00E+00	251	0.00E+00
72.	12	1.77E-03	72	2.75E-05	192	0.00E+00	252	0.00E+00
76.	13	0.00E+00	73	3.43E-05	193	0.00E+00	253	0.00E+00
84.	14	0.00E+00	74	4.23E-05	194	0.00E+00	254	0.00E+00
90.	15	2.10E-03	75	0.03E-07	195	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	7.99E-05	196	5.74E-06	256	1.39E-06
102.	17	0.00E+00	77	4.16E-05	197	0.00E+00	257	1.19E-06
108.	18	1.03E-03	78	4.25E-04	198	4.90E-06	258	7.89E-06
114.	19	0.00E+00	79	5.42E-04	199	1.72E-05	259	8.95E-06
120.	20	0.00E+00	80	1.26E-03	200	2.57E-05	260	1.04E-05
126.	21	3.59E-04	81	6.35E-04	201	2.95E-05	261	8.60E-06
132.	22	0.00E+00	82	1.32E-03	202	7.29E-06	262	6.49E-06
138.	23	0.00E+00	83	5.18E-04	203	6.20E-06	263	1.04E-06
144.	24	5.10E-06	84	6.91E-04	204	5.07E-06	264	4.97E-06
150.	25	0.00E+00	85	5.77E-04	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	3.02E-04	206	9.40E-06	266	1.71E-04
162.	27	6.56E-05	87	3.02E-04	207	1.47E-05	267	5.79E-05
168.	28	0.00E+00	88	1.60E-06	208	7.35E-05	268	3.32E-04
174.	29	0.00E+00	89	3.09E-05	209	7.49E-06	269	1.19E-05
180.	30	1.24E-04	90	0.00E+00	210	1.76E-05	270	4.23E-06
186.	31	0.00E+00	91	2.05E-05	211	1.33E-05	271	1.03E-05
192.	32	0.00E+00	92	1.15E-05	212	1.32E-05	272	7.01E-04
198.	33	4.69E-05	93	1.22E-05	213	9.34E-06	273	1.05E-05
204.	34	0.00E+00	94	0.09E+00	214	1.44E-05	274	3.52E-05
210.	35	0.00E+00	95	1.63E-06	215	1.00E-05	275	9.71E-06
216.	36	5.06E-05	96	2.07E-05	216	0.00E+00	276	2.88E-05
222.	37	0.00E+00	97	2.03E-05	217	1.48E-05	277	9.59E-05
228.	38	0.00E+00	98	2.20E-05	218	0.32E-06	278	8.29E-06
234.	39	3.33E-05	99	0.00E+00	219	1.51E-05	279	3.93E-06
240.	40	0.00E+00	100	9.67E-05	220	1.40E-05	280	1.00E-04
246.	41	0.00E+00	101	2.22E-05	221	1.46E-05	281	9.01E-06
252.	42	6.26E-05	102	1.04E-05	222	1.02E-05	282	1.12E-05
258.	43	0.00E+00	103	1.60E-05	223	0.00E+00	283	2.00E-04
264.	44	0.00E+00	104	0.93E-06	224	2.98E-07	284	7.68E-06
270.	45	6.42E-05	105	1.93E-05	225	1.35E-05	285	4.37E-06
276.	46	0.00E+00	106	6.45E-05	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	7.33E-05	227	0.00E+00	287	0.00E+00
288.	48	1.73E-04	108	1.15E-04	228	0.00E+00	288	0.00E+00
294.	49	0.00E+00	109	1.38E-04	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	7.72E-05	230	0.00E+00	290	0.00E+00

EOCR TEST 17 NRC STAB G 5/21/76 0451-0551 MST

GAS S AVERAGE WINDS: SPEED 1.1 M/S ; DIRECTION 342. DEGREES
SOURCE STRENGTH 0.1688 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
306.	51	3.51E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	3.46E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	2.00E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	9.23E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
123.	341	6.23E-06	461	0.00E+00				
126.	342	4.91E-07	462	3.25E-07				
129.	343	1.36E-05	463	0.73E-07				
132.	344	1.31E-05	464	0.00E+00				
135.	345	7.36E-06	465	0.00E+00				
138.	346	3.01E-06	466	3.22E-07				
141.	347	6.50E-06	467	2.20E-07				
144.	348	9.35E-06	468	0.00E+00				
147.	349	3.45E-06	469	6.06E-07				
150.	350	3.72E-06	470	3.07E-06				
153.	351	3.06E-06	471	3.67E-07				
156.	352	2.74E-06	472	1.00E-06				
159.	353	0.00E+00	473	1.25E-06				
162.	354	0.00E+00	474	9.53E-07				
165.	355	2.29E-06	475	4.09E-07				
168.	356	0.00E+00	476	0.91E-07				
171.	357	1.66E-06	477	5.33E-07				
174.	358	1.51E-06	478	3.54E-07				
177.	359	0.00E+00	479	0.24E-07				
180.	360	1.27E-06	480	0.00E+00				
183.	361	1.02E-05	481	2.08E-06				
186.	362	0.00E+00	482	1.00E+00				
189.	363	1.74E-06	483	0.00E+00				
192.	364	4.68E-07	484	1.25E-06				
195.	365	4.48E-07	485	0.18E-07				
198.	366	5.17E-07	486	1.64E-06				
201.	367	8.51E-07	487	0.00E+00				
204.	368	2.46E-06	488	5.67E-07				
207.	369	6.14E-07	489	0.00E+00				
210.	370	7.80E-07	490	4.21E-07				
213.	371	1.85E-06	491	1.16E-06				
216.	372	6.57E-07	492	2.04E-06				
219.	373	8.06E-07	493	0.00E+00				
222.	374	9.33E-07	494	2.00E-06				
225.	375	6.65E-07	495	0.00E+00				
228.	376	1.52E-06	496	2.02E-06				
231.	377	1.42E-06	497	0.09E-07				

EOCR TEST 17 NRC STAB G 5/21/76 0451-0551 MST

GAS F AVERAGE WINDS: SPEED 2.5 M/S ;DIRECTION 27. DEGREES
SOURCE STRENGTH 1.2874 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
165.	355	0.00E+00	475	1.42E-04
168.	356	0.00E+00	476	5.17E-06
171.	357	7.63E-05	477	4.65E-05
174.	358	5.01E-06	478	1.97E-06
177.	359	1.07E-04	479	1.02E-05
180.	360	4.94E-06	480	2.66E-05
183.	361	6.03E-06	481	1.24E-05
186.	362	9.23E-04	482	0.00E+00
192.	364	3.81E-06	484	3.54E-06
201.	367	0.00E+00	487	2.87E-05
204.	368	6.42E-06	488	0.00E+00
207.	369	0.00E+00	489	1.93E-06
213.	371	2.11E-05	491	5.47E-06
216.	372	0.00E+00	492	1.31E-05
219.	373	0.00E+00	493	1.67E-05
222.	374	4.26E-06	494	1.08E-05
228.	376	1.46E-06	496	0.00E+00
231.	377	5.62E-06	497	2.33E-06
234.	378	0.00E+00	498	1.09E-05
237.	379	2.88E-06	499	1.67E-06

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.06E-05	620	1.22E-04	630	0.00E+00	640	0.00E+00
7.5	611	9.42E-06	621	0.00E+00	631	5.69E-05	641	2.48E-05
15.0	612	2.44E-04	622	0.00E+00	632	0.90E-05	642	2.12E-04
23.0	613	6.68E-04	623	0.00E+00	633	1.63E-04	643	1.63E-04
30.5	614	2.98E-04	624	0.00E+00	634	1.22E-04	644	1.18E-04
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	6.78E-05	660	2.33E-05				
7.5	651	2.72E-05	661	2.20E-05				
15.0	652	4.83E-05	662	1.90E-05				
23.0	653	1.96E-05	663	6.31E-05				
30.5	654	9.84E-05	664	1.69E-05				

EOCR TEST 17 NRC STAB G 5/21/76 0451-0551 MST

GAS B AVERAGE WINDS: SPEED 2.4 M/S ;DIRECTION 27. DEGREES
SOURCE STRENGTH 0.6289 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
282.	47	0.00E+00	107	2.09E-05	227	0.00E+00	287	0.00E+00
289.	49	3.77E-05	108	2.57E-05	228	0.00E+00	288	0.00E+00
294.	49	0.00E+00	109	2.75E-05	229	0.00E+00	289	0.00E+00
306.	50	0.00E+00	110	1.15E-05	230	0.00E+00	290	0.00E+00
306.	51	1.85E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	9.43E-08	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	2.53E-07	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	1.45E-07	120	0.00E+00	240	0.00E+00	300	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
126.	342	1.32E-07	452	0.00E+00				
141.	347	1.61E-06	457	0.00E+00				
144.	348	1.92E-06	458	6.11E-03				
147.	349	1.67E-07	459	2.33E-07				
150.	350	2.31E-07	470	1.00E-06				
171.	357	0.00E+00	477	1.45E-07				
189.	363	4.48E-07	493	0.00E+00				
207.	369	5.83E-07	489	0.00E+00				
219.	373	0.00E+00	493	2.05E-07				
240.	380	0.00E+00	500	6.08E-03				

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	5.50E-06	630	0.00E+00	640	0.00E+00
7.5	611	0.00E+00	621	0.00E+00	631	3.65E-05	641	1.39E-05
15.0	612	2.33E-04	622	0.00E+00	632	9.74E-05	642	6.98E-06
23.0	613	2.37E-04	623	0.00E+00	633	1.99E-04	643	6.92E-05
30.5	614	0.00E+00	624	0.00E+00	634	9.68E-05	644	8.36E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	5.84E-06	660	4.70E-06				
7.5	651	1.65E-05	661	0.32E-06				
15.0	652	5.89E-05	662	6.41E-06				
23.0	653	0.00E+00	663	2.59E-05				
30.5	654	2.23E-06	664	5.07E-06				

EOCR TEST 17 NRC STAB G 5/21/76 0451-0551 MST

GAS F AVERAGE WINDS: SPEED 2.5 M/S ;DIRECTION 27. DEGREES
SOURCE STRENGTH 1.2874 GM/S RELEASED STACK

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
781	4.19E-05
784	5.64E-05

GAS B AVERAGE WINDS: SPEED 2.4 M/S ;DIRECTION 27. DEGREES
SOURCE STRENGTH 0.6289 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
36.	6	9.46E-07	66	0.00E+00	186	0.00E+00	246	0.00E+00
72.	12	1.31E-06	72	5.32E-07	192	0.00E+00	252	0.00E+00
90.	15	4.14E-04	75	0.00E+00	195	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	4.33E-06	196	6.09E-07	256	2.81E-07
108.	18	3.77E-04	78	1.03E-05	198	1.42E-07	258	2.76E-07
114.	19	0.00E+00	79	7.75E-06	199	6.92E-07	259	1.28E-07
120.	20	0.00E+00	80	1.62E-05	200	0.00E+00	260	4.39E-06
126.	21	2.87E-04	81	2.31E-05	201	7.64E-06	261	1.57E-06
132.	22	0.00E+00	82	0.38E-05	202	3.74E-06	262	9.32E-07
138.	23	0.00E+00	83	3.77E-05	203	2.36E-06	263	0.00E+00
144.	24	1.27E-07	84	5.37E-05	204	1.47E-06	264	1.20E-06
150.	25	0.00E+00	85	6.13E-05	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	3.00E-05	206	2.81E-06	266	0.00E+00
162.	27	2.80E-05	87	5.23E-05	207	4.35E-06	267	0.00E+00
169.	28	0.00E+00	88	4.83E-07	208	1.86E-06	268	0.00E+00
174.	29	0.00E+00	89	2.96E-05	209	0.00E+00	269	1.05E-06
180.	30	6.27E-05	90	0.00E+00	210	5.84E-06	270	6.76E-07
186.	31	0.00E+00	91	2.07E-05	211	3.43E-06	271	0.00E+00
192.	32	0.00E+00	92	0.19E-06	212	3.32E-06	272	0.00E+00
198.	33	3.77E-05	93	5.50E-06	213	4.70E-06	273	0.00E+00
204.	34	0.00E+00	94	0.00E+00	214	3.41E-06	274	0.00E+00
210.	35	0.00E+00	95	5.67E-06	215	9.66E-07	275	0.00E+00
216.	36	1.58E-05	96	5.58E-06	216	4.21E-07	276	0.00E+00
222.	37	0.00E+00	97	5.46E-06	217	3.47E-06	277	0.00E+00
228.	38	0.00E+00	98	4.09E-06	218	0.62E-07	278	0.00E+00
234.	39	1.09E-05	99	0.00E+00	219	4.19E-06	279	1.39E-07
240.	40	0.00E+00	100	2.29E-06	220	3.51E-06	280	0.00E+00
246.	41	0.00E+00	101	6.30E-06	221	2.57E-06	281	0.00E+00
252.	42	2.83E-05	102	2.81E-06	222	2.31E-06	282	1.79E-06
258.	43	0.00E+00	103	6.43E-06	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	5.79E-07	224	0.00E+00	284	0.00E+00
270.	45	4.50E-05	105	9.14E-06	225	1.75E-06	285	0.00E+00
276.	46	0.00E+00	106	1.58E-05	226	0.00E+00	286	0.00E+00

EOCR TEST 17 NRC STAB G 5/21/76 0451-0551 MST

GAS B AVERAGE WINDS: SPEED 2.4 M/S ;DIRECTION 27. DEGREES
SOURCE STRENGTH 0.6289 GM/S RELEASED ROOF

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC

EOCR TEST 18 NRC STAB F 6/23/76 0435-0535 MST

GAS 5 AVERAGE WINDS: SPEED 4.1 M/S ;DIRECTION 38. DEGREES
SOURCE STRENGTH 0.1557 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES									
BEARING	50. M		100. M		400. M		800. M		
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
18.	3	3.06E-03	63	0.00E+00	183	0.00E+00	243	0.00E+00	
36.	6	6.83E-03	66	0.00E+00	186	0.00E+00	246	0.00E+00	
54.	9	7.38E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00	
72.	12	6.32E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00	
90.	15	4.21E-03	75	0.00E+00	195	0.00E+00	255	0.00E+00	
108.	18	3.46E-04	78	0.00E+00	198	0.00E+00	258	0.00E+00	
126.	21	2.75E-03	81	0.00E+00	201	0.00E+00	261	0.00E+00	
144.	24	4.22E-05	84	3.42E-06	204	0.00E+00	264	0.00E+00	
150.	25	0.00E+00	85	9.25E-05	205	0.00E+00	265	0.00E+00	
156.	26	0.00E+00	86	0.00E+00	206	1.43E-06	266	2.41E-06	
162.	27	2.37E-03	87	2.84E-04	207	0.00E+00	267	0.00E+00	
168.	28	0.00E+00	88	8.66E-04	208	4.31E-06	268	0.00E+00	
174.	29	0.00E+00	89	8.73E-04	209	0.00E+00	269	0.00E+00	
180.	30	2.41E-03	90	1.19E-03	210	1.49E-05	270	0.00E+00	
186.	31	0.00E+00	91	1.11E-03	211	5.27E-05	271	2.68E-06	
192.	32	0.00E+00	92	0.00E+00	212	9.08E-05	272	3.08E-05	
198.	33	1.89E-03	93	1.39E-03	213	8.02E-05	273	4.18E-05	
204.	34	0.00E+00	94	2.97E-04	214	1.20E-04	274	2.85E-05	
210.	35	0.00E+00	95	1.08E-03	215	1.46E-04	275	3.71E-05	
216.	36	1.54E-03	96	1.09E-03	216	2.17E-04	276	8.78E-05	
222.	37	0.00E+00	97	4.35E-04	217	2.12E-04	277	2.89E-05	
228.	38	0.00E+00	98	6.20E-04	218	1.17E-04	278	1.63E-05	
234.	39	8.25E-04	99	0.00E+00	219	1.97E-05	279	8.70E-06	
240.	40	0.00E+00	100	3.44E-05	220	3.16E-06	280	2.68E-06	
246.	41	0.00E+00	101	1.84E-04	221	0.00E+00	281	0.00E+00	
252.	42	6.50E-04	102	0.00E+00	222	0.00E+00	282	0.00E+00	
258.	43	2.18E-04	103	0.00E+00	223	0.00E+00	283	0.00E+00	
264.	44	3.00E-04	104	0.00E+00	224	0.00E+00	284	0.00E+00	
270.	45	2.15E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00	
276.	46	3.23E-04	114	0.00E+00	234	0.00E+00	294	0.00E+00	
282.	47	5.22E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00	
288.	48	1.18E-03	120	0.00E+00	240	0.00E+00	300	0.00E+00	
BEARING	1200. M		1600. M						
	GLN	CONC	GLN	CONC					
132.	344	4.44E-06	454	0.00E+00					
138.	346	0.00E+00	456	3.31E-06					
141.	347	0.00E+00	467	3.35E-06					
144.	348	0.00E+00	468	1.96E-06					
153.	351	0.00E+00	471	9.04E-07					
156.	352	2.67E-06	472	0.00E+00					
165.	355	2.12E-06	475	0.00E+00					
177.	359	4.84E-06	479	0.00E+00					
183.	361	4.83E-06	481	0.00E+00					

EOCR TEST 18 NRC STAB F 6/23/76 0435-0535 MST

GAS 5 AVERAGE WINDS: SPEED 4.1 M/S ;DIRECTION 38. DEGREES
SOURCE STRENGTH 0.1557 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES									
BEARING	1200. M		1600. M						
	GLN	CONC	GLN	CONC					
186.	362	2.86E-06	482	1.68E-06					
189.	363	5.14E-06	483	2.82E-07					
192.	364	0.00E+00	484	5.50E-06					
195.	365	1.61E-05	485	4.96E-06					
198.	366	1.19E-05	486	2.03E-05					
201.	367	1.16E-05	487	0.00E+00					
204.	368	5.59E-06	488	4.87E-06					
207.	369	8.15E-06	489	4.46E-06					
210.	370	1.26E-05	490	9.19E-06					
213.	371	3.04E-05	491	1.94E-05					
216.	372	6.20E-05	492	4.92E-05					
219.	373	7.78E-05	493	5.97E-05					
222.	374	4.45E-05	494	2.75E-05					
225.	375	5.34E-06	495	1.02E-05					
228.	376	1.03E-05	496	4.23E-06					
231.	377	5.00E-06	497	0.00E+00					
234.	378	5.67E-07	498	0.00E+00					
237.	379	7.87E-07	499	0.00E+00					

TOWER SAMPLES									
HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4		
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
0.5	610	1.19E-03	620	1.39E-03	630	0.00E+00	640	0.00E+00	
7.5	611	6.08E-04	621	9.77E-04	631	3.54E-06	641	1.59E-05	
15.0	612	0.00E+00	622	4.48E-04	632	2.99E-06	642	1.32E-04	
23.0	613	5.16E-05	623	2.10E-04	633	0.00E+00	643	5.90E-05	
30.5	614	0.00E+00	624	0.00E+00	634	3.41E-06	644	2.12E-05	
HEIGHT	TOWER 5		TOWER 6						
	GLN	CONC	GLN	CONC					
0.5	650	1.49E-05	660	8.02E-05					
7.5	651	1.64E-05	661	1.10E-06					
15.0	652	1.36E-05	662	0.00E+00					
23.0	653	0.00E+00	663	1.08E-06					
30.5	654	2.56E-06	664	0.00E+00					

EOCR TEST 18 NRC STAB F 6/23/76 0435-0535 MST

GAS 5 AVERAGE WINDS: SPEED 4.1 M/S ;DIRECTION 38. DEGREES
SOURCE STRENGTH 0.1557 GM/S RELEASED GROUND

MISCELLANEOUS SAMPLES	
GROUP 1	
GLN	CONC
701	9.30E-04
702	1.83E-03
703	2.57E-03
704	1.97E-05

GAS F AVERAGE WINDS: SPEED 6.9 M/S ;DIRECTION 32. DEGREES
SOURCE STRENGTH 1.2831 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES									
BEARING	50. M		100. M		400. M		800. M		
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC	
188.	18	5.50E-05	78	0.00E+00	198	0.00E+00	258	0.00E+00	
132.	22	0.00E+00	82	1.10E-05	202	0.00E+00	262	0.00E+00	
138.	23	0.00E+00	83	0.00E+00	203	0.00E+00	263	3.83E-06	
144.	24	4.77E-05	84	0.00E+00	204	1.12E-05	264	0.00E+00	
150.	25	0.00E+00	85	1.92E-05	205	0.00E+00	265	7.67E-05	
162.	27	0.00E+00	87	6.27E-05	207	0.00E+00	267	0.00E+00	
180.	30	0.00E+00	90	2.00E-05	210	7.89E-05	270	0.00E+00	
186.	31	0.00E+00	91	7.01E-05	211	0.00E+00	271	0.00E+00	
188.	31	0.00E+00	91	7.01E-05	211	4.69E-05	272	0.00E+00	
192.	32	0.00E+00	92	0.00E+00	212	4.01E-05	273	0.00E+00	
198.	33	0.00E+00	93	1.26E-04	213	0.00E+00	274	0.00E+00	
204.	34	0.00E+00	94	1.05E-04	214	0.00E+00	275	0.00E+00	
210.	35	0.00E+00	95	1.26E-04	215	5.92E-05	276	0.00E+00	
216.	36	0.00E+00	96	2.08E-05	216	1.81E-04	277	4.21E-05	
222.	37	0.00E+00	97	4.90E-05	217	6.49E-05	278	0.00E+00	
228.	38	0.00E+00	98	1.61E-05	218	0.00E+00	279	0.00E+00	
234.	39	0.00E+00	99	9.89E-05	219	0.00E+00	279	0.00E+00	
240.	40	0.00E+00	100	7.78E-05	220	3.70E-05	280	0.00E+00	
306.	51	3.01E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00	
BEARING	1200. M		1600. M						
	GLN	CONC	GLN	CONC					
141.	347	7.25E-06	457	0.00E+00					
174.	358	6.49E-06	478	1.18E-05					
177.	359	0.00E+00	479	6.58E-06					
201.	367	4.65E-05	487	1.20E-05					
210.	370	0.00E+00	490	1.61E-05					
219.	373	6.06E-05	493	0.00E+00					

EOCR TEST 18 NRC STAB F 6/23/76 0435-0535 MST

GAS B AVERAGE WINDS: SPEED 6.5 M/S ; DIRECTION 32. DEGREES
SOURCE STRENGTH 0.6246 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
123.	341	1.38E-07	461	0.00E+00
126.	342	0.00E+00	462	6.48E-07
129.	343	4.17E-07	463	0.00E+00
132.	344	5.07E-07	464	0.00E+00
135.	345	0.00E+00	465	2.10E-07
138.	346	0.00E+00	466	5.95E-07
141.	347	0.00E+00	467	6.09E-06
147.	349	0.00E+00	469	1.32E-06
153.	351	0.00E+00	471	3.67E-07
156.	352	4.70E-07	472	2.50E-07
162.	354	3.94E-07	474	0.00E+00
180.	360	2.52E-08	480	0.00E+00
183.	361	1.47E-07	481	1.03E-07
192.	364	3.46E-07	484	2.38E-07
198.	366	7.02E-06	486	5.76E-07
204.	368	2.68E-07	488	4.49E-07
207.	369	7.78E-07	489	0.00E+00
213.	371	1.19E-05	491	9.44E-06
216.	372	2.04E-05	492	2.34E-05
219.	373	3.05E-05	493	3.09E-05
222.	374	1.26E-05	494	9.06E-06
225.	375	1.16E-07	495	0.00E+00
231.	377	2.40E-07	497	2.22E-06
234.	378	1.98E-07	498	5.02E-07
237.	379	1.24E-07	499	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.02E-04	620	2.03E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.22E-04	621	4.09E-04	631	4.19E-05	641	0.00E+00
15.0	612	3.66E-06	622	4.30E-04	632	1.29E-05	642	7.75E-05
23.0	613	1.30E-04	623	4.01E-04	633	9.74E-05	643	6.53E-05
30.5	614	0.00E+00	624	1.57E-04	634	6.41E-06	644	4.89E-05

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	0.00E+00	660	4.41E-05
7.5	651	1.74E-06	661	1.52E-04
15.0	652	1.42E-05	662	2.22E-05
23.0	653	0.00E+00	663	7.03E-05

EOCR TEST 18 NRC STAB F 6/23/76 0435-0535 MST

GAS B AVERAGE WINDS: SPEED 6.5 M/S ; DIRECTION 32. DEGREES
SOURCE STRENGTH 0.6246 GM/S RELEASED ROOF

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	2.77E-05
702	4.32E-05
704	1.27E-05

EOCR TEST 19 NRC STAB G 6/29/76 0329-0429 MST

GAS S AVERAGE WINDS: SPEED 1.0 M/S ; DIRECTION 9. DEGREES
SOURCE STRENGTH 0.1566 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	0.92E-04	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	1.84E-03	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	2.91E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	2.55E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	7.78E-04	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	18	1.15E-03	78	1.38E-05	198	0.00E+00	258	0.00E+00
126.	21	8.31E-04	81	6.84E-04	201	0.00E+00	261	0.00E+00
144.	24	7.30E-04	84	5.44E-04	204	1.76E-05	264	0.00E+00
162.	27	6.37E-04	87	5.51E-04	207	7.55E-05	267	0.00E+00
180.	30	4.98E-04	90	2.85E-04	210	1.45E-05	270	9.71E-05
198.	33	2.26E-04	93	1.71E-04	213	9.54E-05	273	1.81E-05
216.	36	1.02E-04	96	1.06E-04	216	0.00E+00	276	1.15E-06
234.	39	4.80E-05	99	0.00E+00	219	0.00E+00	279	0.00E+00
252.	42	1.47E-04	102	5.11E-05	222	0.00E+00	282	0.00E+00
270.	45	1.08E-04	105	7.44E-07	225	0.00E+00	285	0.00E+00
288.	48	1.68E-04	108	0.00E+00	228	0.00E+00	288	0.00E+00
306.	51	3.01E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	3.48E-04	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	4.48E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	5.00E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00

EOCR TEST 19 NRC STAB G 6/29/76 0329-0429 MST

GAS S AVERAGE WINDS: SPEED 1.0 M/S ; DIRECTION 9. DEGREES
SOURCE STRENGTH 0.1566 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
126.	342	4.38E-07	452	0.00E+00
147.	349	1.04E-07	459	0.00E+00
150.	350	4.12E-06	470	0.00E+00
153.	351	2.55E-06	471	0.00E+00
156.	352	9.21E-07	472	0.00E+00
159.	353	2.66E-06	473	0.00E+00
162.	354	7.83E-06	474	2.19E-06
165.	355	4.78E-06	475	1.47E-06
168.	356	6.24E-06	476	0.00E+00
171.	357	6.33E-06	477	3.45E-06
174.	358	5.49E-06	478	2.37E-07
177.	359	8.70E-07	479	1.86E-06
180.	360	0.00E+00	480	1.26E-06
183.	361	1.58E-05	481	3.80E-05
186.	362	5.66E-05	482	9.16E-06
189.	363	1.58E-05	483	1.48E-05
192.	364	6.50E-06	484	1.04E-05
195.	365	1.16E-05	485	5.13E-06
198.	366	1.22E-05	486	1.91E-06
201.	367	1.14E-06	487	1.64E-06
204.	368	1.72E-06	488	2.74E-06
207.	369	9.60E-07	489	1.43E-07
210.	370	4.36E-07	490	3.92E-08
213.	371	1.03E-06	491	0.00E+00
216.	372	1.99E-07	492	0.00E+00
219.	373	0.00E+00	493	0.00E+00
222.	374	0.00E+00	494	2.69E-06
225.	375	0.00E+00	495	1.90E-06
228.	376	0.00E+00	496	0.00E+00
231.	377	0.00E+00	497	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	2.85E-04	620	1.71E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.84E-04	621	5.11E-06	631	1.92E-04	641	7.65E-05
15.0	612	2.01E-05	622	6.09E-06	632	5.49E-05	642	3.30E-05
23.0	613	1.53E-06	623	3.84E-05	633	0.00E+00	643	1.00E-05
30.5	614	0.00E+00	624	1.29E-05	634	2.19E-07	644	1.65E-06
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	1.46E-06	660	9.54E-05				
7.5	651	5.73E-06	661	0.00E+00				
15.0	652	1.45E-05	662	1.67E-06				
23.0	653	5.41E-06	663	0.00E+00				

EOCR TEST 19 NRC STAB G 6/29/76 0329-0429 MST

GAS S AVERAGE WINDS: SPEED 1.0 M/S ; DIRECTION 9. DEGREES
SOURCE STRENGTH 0.1566 GM/S RELEASED GROUND

TOWER SAMPLES

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
30.5	654	7.08E-07	664	0.00E+00

MISCELLANEOUS SAMPLES

GROUP 1

GLN	CONC
701	6.83E-06
702	2.38E-05
704	5.64E-05

GAS F AVERAGE WINDS: SPEED 4.5 M/S ; DIRECTION 38. DEGREES
SOURCE STRENGTH 1.2582 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
76.	13	0.00E+00	73	1.20E-05	193	0.00E+00	253	0.00E+00
102.	17	0.00E+00	77	7.94E-06	197	0.00E+00	257	0.00E+00
132.	22	0.00E+00	82	0.00E+00	202	1.76E-05	262	7.64E-06
144.	24	3.51E-06	84	0.00E+00	204	0.00E+00	264	3.29E-05
150.	25	0.00E+00	85	0.00E+00	205	1.07E-05	265	4.79E-05
156.	26	0.00E+00	86	9.97E-06	206	3.39E-05	266	3.04E-04
162.	27	0.00E+00	87	0.00E+00	207	0.00E+00	267	8.12E-07
168.	28	0.00E+00	88	5.21E-05	208	0.00E+00	268	2.41E-05
174.	29	0.00E+00	89	7.01E-05	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	6.73E-05	210	1.11E-06	270	0.00E+00
186.	31	0.00E+00	91	4.52E-05	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	3.58E-05	212	1.73E-05	272	1.76E-05
198.	33	0.00E+00	93	8.22E-05	213	4.76E-05	273	2.21E-05
204.	34	0.00E+00	94	0.00E+00	214	1.63E-05	274	3.18E-05
210.	35	0.00E+00	95	0.00E+00	215	5.41E-06	275	2.09E-05
216.	36	0.00E+00	96	0.00E+00	216	5.67E-05	276	0.00E+00
222.	37	0.00E+00	97	0.00E+00	217	2.38E-05	277	7.59E-05
228.	38	0.00E+00	98	0.00E+00	218	6.07E-06	278	0.00E+00
234.	39	0.00E+00	99	4.02E-05	219	0.00E+00	279	1.48E-05
240.	40	0.00E+00	100	0.00E+00	220	1.10E-05	280	3.14E-05
246.	41	0.00E+00	101	0.00E+00	221	1.58E-05	281	0.00E+00
252.	42	0.00E+00	102	2.09E-06	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	1.23E-05	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	6.48E-06	224	0.00E+00	284	0.00E+00
270.	45	0.00E+00	105	9.18E-06	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	9.18E-06	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	6.48E-06	227	0.00E+00	287	0.00E+00
288.	48	0.00E+00	108	9.18E-06	228	0.00E+00	288	0.00E+00

TOWER SAMPLES

EOCR TEST 19 NRC STAB G 6/29/76 0329-0429 MST								
GAS F AVERAGE WINDS: SPEED 4.5 M/S DIRECTION 39. DEGREES								
SOURCE STRENGTH 1.2582 G/M/S RELEASED STACK								
DOWNWIND DISTANCE (ARC) SAMPLES								
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
123.	341	0.00E+00	451	5.71E-06				
129.	343	0.00E+00	453	3.23E-07				
132.	344	2.41E-06	454	0.00E+00				
135.	345	1.49E-06	455	0.00E+00				
144.	349	7.53E-07	459	0.00E+00				
171.	357	9.20E-06	477	0.00E+00				
174.	358	3.48E-06	478	3.80E-05				
177.	359	0.00E+00	479	3.56E-05				
183.	361	2.05E-06	481	0.00E+00				
186.	362	3.48E-06	482	0.00E+00				
189.	363	1.34E-05	483	1.39E-05				
192.	364	3.78E-06	484	4.68E-06				
195.	365	1.91E-05	485	3.94E-06				
198.	366	0.00E+00	486	1.10E-05				
201.	367	9.81E-06	487	0.00E+00				
204.	368	1.15E-05	488	3.59E-06				
207.	369	0.00E+00	489	2.47E-06				
210.	370	5.94E-06	490	0.00E+00				
213.	371	1.96E-05	491	0.00E+00				
216.	372	2.72E-05	492	0.00E+00				
219.	373	1.14E-05	493	2.41E-06				
222.	374	7.04E-06	494	3.48E-07				
225.	375	1.44E-05	495	0.00E+00				
228.	376	0.00E+00	496	5.37E-07				
234.	378	1.10E-05	498	0.00E+00				
TOWER SAMPLES								
HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	6.73E-05	620	0.22E-05	630	0.00E+00	640	0.00E+00
7.5	611	1.81E-04	621	1.91E-05	631	1.14E-04	641	8.70E-05
15.0	612	1.67E-04	622	4.03E-05	632	7.01E-05	642	1.41E-04
23.0	613	4.38E-05	623	7.29E-04	633	9.34E-06	643	1.61E-04
30.5	614	1.01E-05	624	0.00E+00	634	1.17E-05	644	5.51E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	1.11E-06	660	4.76E-05				
15.0	652	4.00E-05	662	9.54E-05				
23.0	653	0.00E+00	663	4.71E-05				
30.5	654	1.33E-05	664	0.00E+00				

EDCR TEST 19 NRC STAB G 6/29/76 0329-0429 MST

GAS F AVERAGE WINDS: SPEED 4.5 M/S ;DIRECTION 38. DEGREES
SOURCE STRENGTH 1.2582 GM/S RELEASED STACK

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
704 4.49E-05

GAS B AVERAGE WINDS: SPEED 4.2 M/S ;DIRECTION 38. DEGREES
SOURCE STRENGTH 0.6192 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M	100. M	400. M	800. M				
GLN	CONC	GLN	CONC	GLN	CONC			
18.	3	1.03E-07	63	0.00E+00	183	0.00E+00	243	0.00E+00
90.	15	5.47E-05	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	19	3.33E-05	79	0.00E+00	199	0.00E+00	259	0.00E+00
126.	21	5.42E-05	81	0.00E+00	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	3.50E-07	202	0.00E+00	262	1.17E-05
138.	23	0.00E+00	83	5.26E-06	203	0.00E+00	263	9.07E-06
144.	24	1.77E-04	84	1.94E-05	204	0.00E+00	264	5.45E-05
150.	25	0.00E+00	85	3.28E-05	205	0.00E+00	265	5.60E-05
156.	26	0.00E+00	86	4.25E-05	206	0.00E+00	266	4.82E-07
162.	27	2.35E-04	87	1.01E-04	207	7.51E-06	267	2.81E-06
168.	28	0.00E+00	88	1.74E-04	208	1.01E-05	268	1.76E-05
174.	29	0.00E+00	89	1.90E-04	209	2.07E-05	269	0.00E+00
180.	30	2.19E-04	90	1.62E-04	210	1.60E-07	270	9.70E-06
186.	31	0.00E+00	91	2.64E-05	211	6.21E-06	271	5.32E-06
192.	32	0.00E+00	92	1.26E-04	212	0.00E+00	272	1.61E-05
198.	33	1.11E-04	93	9.05E-05	213	3.02E-05	273	7.79E-06
204.	34	0.00E+00	94	3.06E-05	214	1.36E-05	274	8.70E-06
210.	35	0.00E+00	95	1.00E-05	215	0.00E+00	275	0.00E+00
216.	36	5.04E-05	96	1.34E-05	216	0.00E+00	276	0.00E+00
222.	37	0.00E+00	97	9.69E-06	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	0.00E+00	218	1.45E-07	278	0.00E+00
240.	40	0.00E+00	100	0.00E+00	220	0.00E+00	280	2.74E-07
BEARING	1200. M	1600. M						
GLN	CONC	GLN	CONC					
123.	341	1.02E-06	461	0.00E+00				
126.	342	0.00E+00	462	3.52E-06				
129.	343	1.43E-07	463	4.81E-07				
132.	344	1.56E-07	464	3.12E-06				
135.	345	4.68E-07	465	4.71E-07				
138.	346	3.23E-07	466	1.54E-05				
141.	347	8.40E-07	467	1.09E-06				
144.	348	0.00E+00	468	1.73E-07				
147.	349	6.75E-07	469	2.40E-07				
150.	350	3.71E-07	470	6.42E-07				

EDCR TEST 19 NRC STAB G 6/29/76 0329-0429 MST

GAS B AVERAGE WINDS: SPEED 4.2 M/S ;DIRECTION 38. DEGREES
SOURCE STRENGTH 0.6192 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M	1600. M		
GLN	CONC	GLN	CONC	
153.	351	3.06E-06	471	9.08E-07
156.	352	1.21E-06	472	0.00E+00
159.	353	1.44E-06	473	0.00E+00
162.	354	1.24E-06	474	2.08E-09
165.	355	2.49E-06	475	0.00E+00
168.	356	0.00E+00	476	2.47E-07
171.	357	4.47E-07	477	0.00E+00
174.	358	0.00E+00	478	3.62E-07
177.	359	0.00E+00	479	3.12E-06
180.	360	0.00E+00	480	1.02E-06
183.	361	3.38E-06	481	0.00E+00
186.	362	8.24E-05	482	0.00E+00
189.	363	5.88E-05	483	3.70E-05
192.	364	0.00E+00	484	5.07E-06
195.	365	4.67E-06	485	3.80E-06
198.	366	0.00E+00	486	1.95E-06
201.	367	0.00E+00	487	1.04E-06
204.	368	0.00E+00	488	7.82E-07
207.	369	0.00E+00	489	1.25E-06
210.	370	0.00E+00	490	3.30E-03
213.	371	0.00E+00	491	2.16E-07
219.	373	0.00E+00	493	1.65E-06
222.	374	0.00E+00	494	2.53E-09
225.	375	0.00E+00	495	3.80E-07
234.	378	0.00E+00	498	2.58E-07
237.	379	0.00E+00	499	3.60E-07

TOWER SAMPLES

HEIGHT	TOWER 1	TOWER 2	TOWER 3	TOWER 4				
GLN	CONC	GLN	CONC	GLN	CONC			
0.5	610	1.62E-04	620	9.05E-05	630	8.00E+00	640	0.00E+00
7.5	611	2.68E-04	621	2.20E-05	631	8.90E-05	641	7.57E-05
15.0	612	2.03E-04	622	4.58E-05	632	8.22E-05	642	1.00E-04
23.0	613	1.93E-05	623	5.73E-04	633	1.61E-05	643	9.84E-05
30.5	614	2.15E-06	624	3.73E-04	634	6.27E-06	644	2.84E-05
HEIGHT	TOWER 5	TOWER 6						
GLN	CONC	GLN	CONC					
0.5	650	1.60E-07	660	3.02E-05				
7.5	651	0.00E+00	661	7.39E-05				
15.0	652	3.10E-05	662	2.65E-05				
23.0	653	1.65E-05	663	2.85E-05				
30.5	654	2.39E-05	664	7.45E-05				

EDCR TEST 19 NRC STAB G 6/29/76 0329-0429 MST

GAS B AVERAGE WINDS: SPEED 4.2 M/S ;DIRECTION 38. DEGREES
SOURCE STRENGTH 0.6192 GM/S RELEASED ROOF

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
702 2.39E-04
704 3.15E-04

EOCR TEST 20 NRC STAB G 6/30/76 0344-0442 MST

GAS S AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 35. DEGREES
SOURCE STRENGTH 0.1585 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	1.30E-03	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	2.41E-03	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	2.85E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	2.61E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	1.84E-03	75	1.18E-05	195	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	4.53E-05	196	0.00E+00	256	0.00E+00
102.	17	0.00E+00	77	4.14E-05	197	0.00E+00	257	0.00E+00
108.	18	1.63E-03	78	1.41E-04	198	0.00E+00	258	0.00E+00
114.	19	0.00E+00	79	6.69E-05	199	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	1.57E-04	200	0.00E+00	260	0.00E+00
126.	21	1.19E-03	81	1.23E-04	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	1.17E-04	202	3.23E-07	262	0.00E+00
138.	23	0.00E+00	83	1.13E-04	203	9.76E-07	263	0.00E+00
144.	24	1.09E-03	84	9.54E-05	204	6.11E-06	264	0.00E+00
150.	25	0.00E+00	85	8.60E-05	205	9.44E-06	265	0.00E+00
156.	26	0.00E+00	86	6.53E-05	206	1.78E-05	266	0.00E+00
162.	27	1.05E-03	87	1.35E-04	207	1.90E-05	267	0.00E+00
168.	29	0.00E+00	89	1.04E-04	208	2.16E-05	268	0.00E+00
174.	29	0.00E+00	89	3.18E-04	209	5.95E-06	269	0.00E+00
180.	30	9.75E-04	90	0.00E+00	210	2.38E-05	270	0.00E+00
186.	31	0.00E+00	91	4.79E-04	211	1.35E-05	271	0.00E+00
192.	32	0.00E+00	92	5.05E-04	212	1.00E-05	272	9.88E-07
198.	33	3.39E-05	93	5.95E-05	213	0.00E+00	273	1.12E-05
204.	34	0.00E+00	94	4.12E-04	214	6.07E-05	274	0.00E+00
210.	35	0.00E+00	95	4.42E-04	215	0.00E+00	275	4.75E-06
216.	36	4.30E-04	96	3.36E-04	216	7.64E-05	276	3.42E-05
222.	37	0.00E+00	97	2.92E-04	217	6.91E-05	277	2.06E-05
228.	38	0.00E+00	98	2.17E-04	218	3.37E-05	278	9.94E-05
234.	39	4.27E-04	99	0.00E+00	219	3.02E-06	279	8.02E-05
240.	40	0.00E+00	100	2.57E-04	220	6.13E-06	280	0.00E+00
246.	41	0.00E+00	101	2.06E-04	221	2.93E-06	281	0.00E+00
252.	42	3.16E-04	102	7.73E-05	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	7.25E-05	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	3.04E-05	224	0.00E+00	284	0.00E+00
270.	45	2.10E-04	105	2.09E-05	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	1.24E-05	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	2.76E-06	227	0.00E+00	287	0.00E+00
306.	51	2.50E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	2.52E-04	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	4.27E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	7.99E-05	120	0.00E+00	240	0.00E+00	300	0.00E+00

EOCR TEST 20 NRC STAB G 6/30/76 0344-0442 MST

GAS S AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 35. DEGREES
SOURCE STRENGTH 0.1585 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
123.	341	0.00E+00	461	8.09E-06
153.	351	0.00E+00	471	2.06E-07
159.	353	1.12E-07	473	0.00E+00
162.	354	2.20E-07	474	0.00E+00
171.	357	0.00E+00	477	6.16E-07
174.	358	0.00E+00	479	1.29E-07
177.	359	0.00E+00	479	5.18E-07
183.	361	0.00E+00	481	9.32E-07
186.	362	0.00E+00	482	4.83E-06
189.	363	4.29E-07	483	3.12E-06
192.	364	0.00E+00	484	1.56E-06
195.	365	1.57E-06	485	1.10E-06
198.	366	0.00E+00	486	4.90E-06
201.	367	5.67E-07	487	5.06E-07
204.	368	0.00E+00	488	4.48E-06
207.	369	0.00E+00	489	3.28E-07
210.	370	0.00E+00	490	1.12E-06
213.	371	3.20E-06	491	4.69E-06
216.	372	1.82E-05	492	0.00E+00
219.	373	3.32E-05	493	2.41E-05
222.	374	1.76E-05	494	1.36E-05
225.	375	7.72E-06	495	4.12E-06
228.	376	5.67E-07	496	2.97E-06
231.	377	5.52E-06	497	3.60E-06
234.	378	5.54E-06	498	1.14E-06

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	5.95E-05	630	0.00E+00	640	0.00E+00
7.5	611	2.04E-04	621	3.98E-03	631	0.00E+00	641	1.42E-04
15.0	612	2.35E-05	622	1.65E-04	632	4.52E-06	642	6.21E-05
23.0	613	0.00E+00	623	1.43E-05	633	2.47E-06	643	1.11E-05
30.5	614	0.00E+00	624	1.06E-06	634	3.13E-07	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	2.38E-05	660	0.00E+00				
7.5	651	0.00E+00	661	3.59E-05				
15.0	652	1.25E-05	662	2.80E-05				
23.0	653	2.64E-06	663	1.01E-05				
30.5	654	0.00E+00	664	3.54E-06				

EOCR TEST 20 NRC STAB G 6/30/76 0344-0442 MST

GAS S AVERAGE WINDS: SPEED 1.5 M/S ; DIRECTION 35. DEGREES
SOURCE STRENGTH 0.1585 GM/S RELEASED GROUND

MISCELLANEOUS SAMPLES

GROUP 1

GLN	CONC
701	9.94E-04
702	9.55E-04
703	9.02E-04
704	7.90E-04

GAS F AVERAGE WINDS: SPEED 5.6 M/S ; DIRECTION 47. DEGREES
SOURCE STRENGTH 1.2446 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
114.	19	0.00E+00	79	9.71E-06	199	0.00E+00	259	0.00E+00
132.	22	0.00E+00	82	0.00E+00	202	1.03E-05	262	0.00E+00
138.	23	0.00E+00	83	0.00E+00	203	7.40E-05	263	0.00E+00
144.	24	0.00E+00	84	1.28E-04	204	1.28E-05	264	0.00E+00
150.	25	0.00E+00	85	5.68E-06	205	0.00E+00	265	0.00E+00
162.	27	0.00E+00	87	0.00E+00	207	3.90E-06	267	0.00E+00
180.	30	0.00E+00	90	4.16E-05	210	0.00E+00	270	0.00E+00
192.	32	0.00E+00	92	0.00E+00	212	1.12E-05	272	0.00E+00
198.	33	0.00E+00	93	5.02E-05	213	0.00E+00	273	6.69E-07
210.	35	0.00E+00	95	0.00E+00	215	3.15E-05	275	0.00E+00
216.	36	0.00E+00	96	0.00E+00	216	3.75E-05	276	0.00E+00
222.	37	0.00E+00	97	1.89E-05	217	5.69E-05	277	3.80E-05
228.	38	0.00E+00	98	0.00E+00	218	2.55E-05	278	7.95E-06
234.	39	0.00E+00	99	0.00E+00	219	1.65E-05	279	0.00E+00
270.	45	0.00E+00	105	5.90E-06	225	0.00E+00	285	0.00E+00
280.	48	0.00E+00	108	5.79E-05	228	0.00E+00	288	0.00E+00
300.	50	0.00E+00	110	5.49E-05	230	0.00E+00	290	0.00E+00
342.	57	4.36E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	4.00E-05	120	0.00E+00	240	0.00E+00	300	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
130.	346	0.00E+00	466	2.15E-06				
141.	347	1.10E-05	467	0.00E+00				
147.	349	0.00E+00	469	7.44E-05				
150.	350	1.31E-05	470	0.00E+00				
153.	351	0.00E+00	471	8.29E-05				
156.	352	8.12E-06	472	0.00E+00				
162.	354	4.01E-05	474	0.00E+00				
165.	355	1.19E-05	475	0.00E+00				
168.	356	4.94E-06	476	0.00E+00				
171.	357	7.18E-06	477	0.00E+00				

EOCR TEST 20 NRC STAB G 6/30/76 0344-0442 MST

GAS F AVERAGE WINDS: SPEED 5.6 M/S ; DIRECTION 47. DEGREES
SOURCE STRENGTH 1.2446 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
174.	358	6.56E-06	478	0.00E+00
177.	359	0.00E+00	479	2.49E-06
180.	360	0.00E+00	480	1.09E-06
201.	367	0.00E+00	487	2.10E-06
207.	369	6.98E-06	489	4.21E-05
210.	370	0.00E+00	490	1.09E-06
213.	371	1.31E-05	491	0.00E+00
216.	372	1.13E-05	492	0.00E+00
219.	373	1.08E-05	493	1.90E-05
222.	374	0.00E+00	494	3.01E-05
225.	375	1.67E-05	495	1.55E-05
231.	377	8.09E-06	497	0.00E+00
237.	379	9.61E-07	499	0.00E+00
240.	380	0.00E+00	500	2.33E-06

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	4.16E-05	620	5.02E-05	630	0.00E+00	640	0.00E+00
7.5	611	0.00E+00	621	3.07E-04	631	4.97E-05	641	0.00E+00
15.0	612	3.73E-05	622	7.46E-05	632	1.92E-05	642	2.98E-05
23.0	613	2.06E-05	623	7.09E-05	633	1.92E-05	643	5.13E-05
30.5	614	0.00E+00	624	0.00E+00	634	2.64E-05	644	2.59E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
7.5	651	2.98E-05	661	0.00E+00				
15.0	652	0.00E+00	662	1.45E-05				
30.5	654	3.25E-06	664	2.01E-05				

EOCR TEST 20 NRC STAB G 6/30/76 0344-0442 MST

GAS B AVERAGE WINDS: SPEED 5.3 M/S ;DIRECTION 47. DEGREES
SOURCE STRENGTH 0.6226 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
76.	13	0.00E+00	73	1.27E-06	193	0.00E+00	253	0.00E+00
90.	15	0.00E+00	75	3.32E-08	195	0.00E+00	255	0.00E+00
102.	17	0.00E+00	77	0.30E-07	197	0.00E+00	257	0.00E+00
108.	18	9.95E-05	78	2.87E-06	198	0.00E+00	258	0.00E+00
120.	20	0.00E+00	80	4.29E-05	200	0.00E+00	260	0.00E+00
126.	21	1.66E-05	81	1.15E-05	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	1.03E-05	202	3.06E-07	262	0.00E+00
138.	23	0.00E+00	83	2.34E-05	203	1.12E-07	263	0.00E+00
144.	24	2.04E-05	84	1.60E-06	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	1.12E-05	205	2.37E-06	265	0.00E+00
156.	26	0.00E+00	86	0.85E-06	206	5.42E-06	266	0.00E+00
162.	27	2.39E-05	87	1.65E-05	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	0.00E+00	208	2.34E-06	268	0.00E+00
174.	29	0.00E+00	89	1.41E-05	209	2.48E-05	269	0.00E+00
180.	30	6.40E-05	90	9.20E-07	210	7.54E-06	270	0.00E+00
186.	31	0.00E+00	91	1.47E-05	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	2.19E-05	212	0.00E+00	272	0.00E+00
196.	33	0.00E+00	93	2.83E-06	213	0.00E+00	273	0.00E+00
204.	34	0.00E+00	94	1.16E-04	214	1.34E-05	274	0.00E+00
210.	35	0.00E+00	95	1.05E-04	215	0.00E+00	275	0.00E+00
216.	35	1.01E-04	96	1.34E-04	216	2.96E-05	276	1.09E-05
222.	37	0.00E+00	97	9.06E-05	217	4.78E-05	277	1.75E-05
228.	38	0.00E+00	98	2.62E-05	218	1.96E-05	278	7.79E-06
234.	39	0.35E-06	99	0.00E+00	219	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	3.60E-05	220	1.73E-06	280	0.00E+00
246.	41	0.00E+00	101	5.83E-07	221	0.00E+00	281	0.00E+00
360.	60	3.93E-06	120	0.00E+00	240	0.00E+00	300	0.00E+00

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
123.	341	0.00E+00	451	2.76E-06
126.	342	0.00E+00	452	4.79E-06
129.	343	0.00E+00	453	2.33E-07
132.	344	0.00E+00	454	1.46E-06
135.	345	0.00E+00	455	3.16E-06
141.	347	0.00E+00	457	6.90E-06
150.	350	0.00E+00	470	7.20E-07
153.	351	0.00E+00	471	5.54E-05
159.	353	0.00E+00	473	1.43E-06
162.	354	0.00E+00	474	1.01E-07
165.	355	0.00E+00	475	1.36E-06
168.	356	0.00E+00	476	1.93E-06
171.	357	0.00E+00	477	4.35E-07
174.	358	3.69E-07	478	3.65E-07

EOCR TEST 20 NRC STAB G 6/30/76 0344-0442 MST

GAS B AVERAGE WINDS: SPEED 5.3 M/S ;DIRECTION 47. DEGREES
SOURCE STRENGTH 0.6226 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
177.	359	0.00E+00	479	9.38E-07
180.	360	0.00E+00	480	2.52E-06
183.	361	0.00E+00	481	1.23E-06
186.	362	0.00E+00	482	7.01E-07
189.	363	0.00E+00	483	1.64E-06
192.	364	0.00E+00	484	1.31E-06
195.	365	4.78E-08	485	1.33E-06
201.	367	0.00E+00	487	5.01E-07
204.	368	0.00E+00	488	6.28E-07
207.	369	0.00E+00	489	5.43E-07
213.	371	3.82E-06	491	1.69E-06
216.	372	6.66E-06	492	0.00E+00
219.	373	1.01E-05	493	1.04E-05
222.	374	1.89E-05	494	2.06E-05
225.	375	7.15E-06	495	6.31E-06
228.	376	0.00E+00	496	5.70E-06
231.	377	2.09E-06	497	6.36E-06
234.	378	0.00E+00	498	2.31E-06
237.	379	7.36E-08	499	3.92E-07
240.	380	0.00E+00	500	6.23E-07

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	9.20E-07	620	2.93E-06	630	0.00E+00	640	0.00E+00
7.5	611	5.18E-05	621	1.21E-03	631	0.00E+00	641	2.07E-05
15.0	612	7.10E-05	622	1.75E-04	632	1.76E-05	642	1.68E-05
23.0	613	3.96E-05	623	9.48E-05	633	1.69E-05	643	1.21E-05
30.5	614	4.04E-06	624	0.20E-06	634	2.38E-05	644	1.59E-05

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	7.54E-06	660	0.00E+00
7.5	651	4.08E-06	661	0.00E+00
15.0	652	2.03E-06	662	6.79E-06
23.0	653	8.60E-06	663	1.18E-05
30.5	654	2.41E-06	664	1.13E-05

EOCR TEST 20 NRC STAB G 6/30/76 0344-0442 MST

GAS B AVERAGE WINDS: SPEED 5.3 M/S ;DIRECTION 47. DEGREES
SOURCE STRENGTH 0.6226 GM/S RELEASED ROOF

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
703	2.45E-05
704	7.12E-05

EOCR TEST 21 NRC STAB G 7/15/76 0344-0444 MST

GAS S AVERAGE WINDS: SPEED 1.3 M/S ; DIRECTION 9. DEGREES
SOURCE STRENGTH 0.1539 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
10.	3	4.21E-04	63	0.00E+00	183	0.00E+00	243	0.00E+00
35.	6	2.15E-03	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	5.44E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	2.81E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	1.61E-03	75	0.00E+00	195	0.00E+00	255	0.00E+00
102.	17	0.00E+00	77	0.00E+00	197	0.00E+00	257	1.06E-05
109.	18	1.55E-03	78	0.00E+00	198	0.00E+00	258	9.36E-06
114.	19	0.00E+00	79	0.00E+00	199	0.00E+00	259	1.04E-05
120.	20	0.00E+00	80	0.00E+00	200	0.00E+00	260	4.92E-05
126.	21	1.14E-03	81	0.00E+00	201	0.00E+00	261	7.34E-05
132.	22	0.00E+00	82	1.59E-03	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	0.00E+00	203	0.00E+00	263	4.93E-07
144.	24	8.35E-04	84	1.09E-03	204	0.00E+00	264	3.81E-05
150.	25	0.00E+00	85	1.17E-03	205	2.11E-05	265	1.33E-05
156.	26	0.00E+00	86	5.93E-04	206	2.77E-04	266	1.60E-05
162.	27	0.00E+00	87	0.44E-04	207	1.97E-04	267	6.31E-05
168.	28	0.00E+00	88	6.93E-04	208	2.33E-04	268	3.16E-05
174.	29	0.00E+00	89	5.16E-04	209	4.55E-05	269	6.62E-05
180.	30	4.01E-04	90	0.00E+00	210	2.24E-04	270	1.11E-04
186.	31	0.00E+00	91	2.64E-04	211	0.00E+00	271	4.63E-05
192.	32	0.00E+00	92	1.60E-04	212	3.10E-05	272	6.21E-05
198.	33	1.11E-04	93	1.46E-04	213	1.14E-05	273	1.01E-05
204.	34	0.00E+00	94	9.32E-05	214	0.00E+00	274	3.43E-05
210.	35	0.00E+00	95	4.63E-05	215	4.04E-06	275	9.30E-06
216.	35	1.24E-04	96	7.93E-05	216	4.88E-06	276	1.07E-05
222.	37	0.00E+00	97	6.00E-05	217	3.85E-06	277	6.07E-06
228.	38	0.00E+00	98	3.61E-05	218	5.67E-06	278	1.05E-05
234.	39	1.43E-05	99	2.78E-05	219	0.00E+00	279	8.40E-07
240.	40	0.00E+00	100	5.02E-05	220	0.00E+00	280	5.10E-07
246.	41	0.00E+00	101	6.91E-05	221	0.00E+00	281	2.20E-06
252.	42	6.02E-05	102	8.69E-07	222	5.63E-07	282	3.50E-05
258.	43	0.00E+00	103	0.00E+00	223	0.00E+00	283	9.92E-06
264.	44	0.00E+00	104	0.00E+00	224	0.00E+00	284	1.75E-05
270.	45	5.44E-05	105	0.00E+00	225	1.04E-06	285	3.45E-05
276.	46	0.00E+00	106	0.00E+00	226	1.04E-07	286	0.00E+00
282.	47	0.00E+00	107	0.00E+00	227	2.85E-07	287	0.00E+00
288.	48	4.05E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
294.	49	1.67E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
300.	50	7.74E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
306.	51	1.10E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
312.	52	1.00E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00

EOCR TEST 21 NRC STAB G 7/15/76 0344-0444 MST

GAS S AVERAGE WINDS: SPEED 1.3 M/S ; DIRECTION 9. DEGREES
SOURCE STRENGTH 0.1539 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
123.	341	4.09E-06	461	3.18E-07
126.	342	1.11E-05	462	0.00E+00
129.	343	8.73E-06	463	0.00E+00
132.	344	4.68E-07	464	0.00E+00
135.	345	2.58E-06	465	0.00E+00
147.	349	5.44E-06	469	0.00E+00
150.	350	1.00E-05	470	0.00E+00
153.	351	6.94E-07	471	0.00E+00
156.	352	5.06E-06	472	0.00E+00
159.	353	1.24E-05	473	7.22E-07
162.	354	8.64E-06	474	2.49E-05
165.	355	3.53E-05	475	2.16E-05
168.	356	1.96E-05	476	2.95E-05
171.	357	1.69E-05	477	3.69E-05
174.	358	6.96E-05	478	1.82E-05
177.	359	6.46E-05	479	1.75E-05
180.	360	1.02E-05	480	2.31E-05
183.	361	2.38E-05	481	0.01E-06
186.	362	7.38E-06	482	6.30E-05
189.	363	4.47E-06	483	5.74E-06
192.	364	5.13E-06	484	4.69E-06
195.	365	3.53E-06	485	3.62E-06
198.	366	1.14E-06	486	6.86E-06
201.	367	6.32E-07	487	2.52E-05
204.	368	2.91E-06	488	3.66E-06
207.	369	3.89E-06	489	2.13E-05
210.	370	3.84E-06	490	5.71E-05
213.	371	3.43E-06	491	1.50E-05
216.	372	5.93E-06	492	2.90E-05
219.	373	6.90E-06	493	9.35E-07
222.	374	3.10E-06	494	1.16E-06
225.	375	1.82E-06	495	0.00E+00
228.	376	0.00E+00	496	4.03E-06
231.	377	0.00E+00	497	2.72E-05
234.	378	3.10E-07	499	1.06E-07
237.	379	3.38E-07	499	1.17E-07
240.	380	1.59E-06	500	3.54E-06

EOCR TEST 21 NRC STAB G 7/15/76 0344-0444 MST

GAS S AVERAGE WINDS: SPEED 1.3 M/S ; DIRECTION 9. DEGREES
SOURCE STRENGTH 0.1539 GM/S RELEASED GROUND

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	1.46E-04	630	0.00E+00	640	0.00E+00
7.5	611	3.75E-05	621	1.75E-04	631	2.87E-04	641	5.59E-05
15.0	612	3.23E-05	622	0.18E-05	632	5.85E-05	642	5.02E-05
23.0	613	5.98E-07	623	0.00E+00	633	9.69E-06	643	1.87E-05
30.5	614	0.00E+00	624	4.95E-06	634	1.68E-06	644	4.17E-06
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	2.24E-04	660	1.14E-05				
7.5	651	2.22E-04	661	4.06E-06				
15.0	652	9.34E-05	662	1.13E-06				
23.0	653	4.60E-05	663	1.79E-05				
30.5	654	0.00E+00	664	3.00E-06				

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	1.49E-04
702	6.80E-06
703	1.51E-04
704	1.39E-04

GAS F AVERAGE WINDS: SPEED 4.0 M/S ; DIRECTION 27. DEGREES
SOURCE STRENGTH 1.2419 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
96.	16	0.00E+00	76	0.00E+00	196	0.00E+00	256	3.47E-05
102.	17	0.00E+00	77	0.00E+00	197	0.00E+00	257	5.35E-05
108.	18	0.00E+00	78	0.00E+00	198	0.00E+00	258	7.11E-05
114.	19	0.00E+00	79	0.00E+00	199	0.00E+00	259	4.42E-05
120.	20	0.00E+00	80	0.00E+00	200	0.00E+00	260	8.45E-06
126.	21	0.00E+00	81	0.00E+00	201	0.00E+00	261	8.57E-05
138.	23	0.00E+00	83	0.00E+00	203	1.38E-04	263	3.64E-06
144.	24	0.00E+00	84	0.00E+00	204	2.23E-04	264	3.09E-04
150.	25	0.00E+00	85	0.00E+00	205	0.00E+00	265	2.80E-06
162.	27	0.00E+00	87	0.00E+00	207	5.96E-05	267	0.00E+00
168.	28	0.00E+00	88	0.00E+00	208	0.00E+00	268	4.01E-05
174.	29	0.00E+00	89	1.10E-04	209	3.03E-05	269	7.01E-05
180.	30	7.34E-05	90	0.00E+00	210	0.00E+00	270	2.35E-05
186.	31	0.00E+00	91	9.78E-05	211	0.00E+00	271	0.00E+00

EOCR TEST 21 NRC STAB G 7/15/76 0344-0444 MST

GAS F AVERAGE WINDS: SPEED 4.0 M/S ; DIRECTION 27. DEGREES
SOURCE STRENGTH 1.2419 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
192.	32	0.00E+00	92	8.24E-05	212	1.68E-04	272	1.40E-05
198.	33	3.29E-05	93	3.91E-05	213	1.62E-05	273	1.77E-05
210.	35	0.00E+00	95	0.00E+00	215	0.00E+00	275	5.92E-06
216.	36	2.46E-05	96	0.00E+00	216	7.31E-06	276	2.06E-05
222.	37	0.00E+00	97	0.00E+00	217	0.69E-05	277	5.39E-06
228.	38	0.00E+00	98	1.16E-05	218	7.43E-06	278	8.91E-05
234.	39	2.03E-04	99	0.00E+00	219	5.27E-05	279	2.08E-06
240.	40	0.00E+00	100	0.00E+00	220	3.87E-05	280	6.70E-06
246.	41	0.00E+00	101	0.00E+00	221	0.00E+00	281	1.74E-06
252.	42	0.00E+00	102	3.33E-06	222	1.28E-05	282	2.10E-05
258.	43	0.00E+00	103	0.00E+00	223	0.00E+00	283	1.13E-06
264.	44	0.00E+00	104	0.00E+00	224	7.71E-06	284	2.80E-05
270.	45	0.00E+00	105	7.07E-06	225	3.97E-05	285	1.19E-04
282.	47	0.00E+00	107	3.86E-05	227	6.31E-06	287	0.00E+00
288.	48	0.00E+00	108	0.00E+00	228	3.42E-05	288	0.00E+00
294.	49	0.00E+00	109	4.56E-05	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	0.00E+00	230	3.54E-06	290	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
123.	341	0.00E+00	461	6.98E-06				
126.	342	2.46E-05	462	6.15E-05				
129.	343	3.26E-05	463	7.47E-05				
135.	345	0.00E+00	465	1.21E-05				
138.	346	6.92E-06	466	0.00E+00				
147.	349	1.77E-05	469	1.59E-05				
150.	350	6.70E-06	470	0.00E+00				
153.	351	5.74E-06	471	3.33E-06				
156.	352	6.19E-06	472	0.00E+00				
162.	354	0.00E+00	474	3.14E-05				
165.	355	1.32E-05	475	2.33E-06				
168.	356	6.12E-06	476	1.55E-06				
171.	357	1.76E-05	477	1.00E-05				
174.	358	5.01E-06	478	9.39E-05				
177.	359	2.01E-05	479	1.44E-05				
180.	360	0.00E+00	480	1.66E-05				
183.	361	1.94E-05	481	1.14E-05				
186.	362	1.28E-05	482	1.75E-05				
189.	363	1.33E-05	483	6.04E-06				
192.	364	2.91E-05	484	2.30E-06				
195.	365	1.00E-05	485	3.29E-07				
198.	366	9.45E-07	486	6.59E-05				
201.	367	9.42E-06	487	4.25E-05				
204.	368	9.99E-07	488	6.34E-05				

EOCR TEST 21 NRC STAB G 7/15/76 0344-0444 MST

GAS F AVERAGE WINDS: SPEED 4.0 M/S ; DIRECTION 27. DEGREES
SOURCE STRENGTH 1.2419 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
207.	369	1.23E-05	489	5.16E-05
210.	370	0.00E+00	490	4.93E-05
213.	371	1.95E-05	491	1.25E-05
216.	372	0.00E+00	492	7.27E-07
219.	373	4.95E-06	493	5.83E-06
222.	374	3.64E-05	494	0.00E+00
228.	376	1.72E-06	496	9.77E-07
231.	377	5.32E-06	497	3.64E-05
234.	378	2.25E-06	498	4.94E-06
237.	379	0.00E+00	499	4.26E-06
240.	380	1.98E-05	500	7.77E-06

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	3.91E-05	630	0.00E+00	640	0.00E+00
7.5	611	4.30E-05	621	0.66E-05	631	7.98E-05	641	1.32E-04
15.0	612	1.55E-04	622	1.79E-04	632	4.52E-03	642	1.49E-04
23.0	613	5.15E-05	623	0.00E+00	633	2.55E-05	643	1.30E-04
30.5	614	0.00E+00	624	1.86E-04	634	0.95E-06	644	3.12E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	0.00E+00	660	1.62E-05				
7.5	651	6.07E-05	661	2.06E-04				
15.0	652	0.00E+00	662	2.01E-04				
23.0	653	1.90E-05	663	5.38E-05				
30.5	654	0.00E+00	664	2.07E-04				

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
703	5.65E-05
704	7.74E-05

EOCR TEST 21 NRC STAB G 7/15/76 0344-0444 MST

GAS B AVERAGE WINDS: SPEED 3.0 M/S ; DIRECTION 27. DEGREES
SOURCE STRENGTH 0.6088 GM/S RELEASED ROOF

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	0.00E+00	620	4.95E-05	630	0.00E+00	640	0.00E+00
7.5	611	3.44E-05	621	1.33E-04	631	1.14E-04	641	1.07E-04
15.0	612	2.07E-04	622	1.01E-04	632	0.22E-05	642	1.48E-04
23.0	613	0.18E-05	623	0.00E+00	633	1.92E-05	643	1.22E-04
30.5	614	6.71E-06	624	9.69E-05	634	0.29E-05	644	4.55E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	2.62E-05	660	1.39E-05				
7.5	651	4.59E-05	661	1.99E-05				
15.0	652	2.53E-05	662	0.00E+00				
23.0	653	1.50E-05	663	5.06E-05				
30.5	654	7.42E-05	664	1.45E-05				

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
703	3.98E-04
704	3.93E-04

EOCR TEST 21 NRC STAB G 7/15/76 0344-0444 MST

GAS B AVERAGE WINDS: SPEED 3.0 M/S ; DIRECTION 27. DEGREES
SOURCE STRENGTH 0.6088 GM/S RELEASED ROOF

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
90.	15	6.56E-05	75	0.00E+00	195	0.00E+00	255	0.00E+00
102.	17	0.00E+00	77	0.00E+00	197	0.00E+00	257	4.34E-07
108.	18	3.91E-05	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	6.05E-05	81	0.00E+00	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	0.00E+00	202	2.93E-07	262	0.00E+00
144.	24	2.11E-04	84	7.34E-06	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	2.40E-05	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	3.15E-05	206	1.54E-06	266	0.00E+00
162.	27	0.00E+00	87	9.15E-05	207	5.55E-06	267	0.00E+00
168.	28	0.00E+00	88	1.35E-04	208	1.79E-05	268	4.67E-07
174.	29	0.00E+00	89	1.67E-04	209	5.30E-05	269	3.73E-06
180.	30	1.91E-04	90	0.00E+00	210	2.82E-05	270	1.29E-05
186.	31	0.00E+00	91	1.33E-04	211	0.00E+00	271	7.37E-06
192.	32	0.00E+00	92	1.21E-04	212	1.02E-06	272	5.37E-06
198.	33	5.63E-05	93	4.95E-05	213	1.39E-05	273	0.00E+00
204.	34	0.00E+00	94	7.91E-06	214	0.00E+00	274	0.00E+00
210.	35	0.00E+00	95	2.70E-05	215	5.67E-08	275	0.00E+00
216.	36	5.52E-05	96	4.70E-05	216	0.00E+00	276	0.00E+00
228.	38	0.00E+00	98	1.07E-06	218	0.00E+00	278	0.00E+00
234.	39	0.00E+00	99	0.00E+00	219	7.69E-07	279	0.00E+00
240.	40	0.00E+00	100	0.00E+00	220	6.82E-08	280	0.00E+00
342.	57	1.44E-06	117	0.00E+00	237	0.00E+00	297	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
126.	342	3.88E-06	462	0.00E+00				
129.	343	4.19E-06	463	0.00E+00				
147.	349	4.53E-07	469	0.00E+00				
165.	355	2.82E-06	475	0.00E+00				
168.	356	4.18E-06	476	1.33E-06				
171.	357	1.86E-06	477	4.13E-06				
174.	358	4.36E-06	478	4.55E-06				
177.	359	6.65E-06	479	6.00E-06				
180.	360	2.96E-06	480	0.00E+00				
183.	361	6.41E-06	481	3.22E-06				
186.	362	0.00E+00	482	4.35E-06				
189.	363	5.63E-06	483	4.40E-06				
192.	364	2.45E-06	484	0.00E+00				
195.	365	3.64E-07	485	0.00E+00				
198.	366	6.53E-07	486	0.00E+00				

EOCR TEST 22 NRC STAB E 7/16/76 0742-0842 MST

GAS F AVERAGE WINDS: SPEED 2.4 M/S ; DIRECTION 34. DEGREES
SOURCE STRENGTH 0.1479 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M CONC	GLN	100. M CONC	GLN	400. M CONC	GLN	800. M CONC
18.	3	1.06E-05	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	2.74E-05	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	2.20E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	2.10E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	1.40E-03	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	18	1.20E-03	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	9.37E-04	81	8.75E-05	201	0.00E+00	261	0.00E+00
138.	23	0.00E+00	83	1.33E-05	203	0.00E+00	263	0.00E+00
144.	24	8.94E-04	84	1.94E-05	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	1.14E-04	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	2.61E-04	206	5.19E-07	266	0.00E+00
162.	27	6.31E-04	87	3.70E-04	207	4.07E-07	267	0.00E+00
168.	28	0.00E+00	88	0.00E+00	208	2.29E-07	268	3.19E-07
174.	29	0.00E+00	89	4.56E-04	209	2.65E-06	269	4.94E-07
180.	30	9.33E-04	90	4.45E-04	210	4.37E-06	270	9.00E-07
186.	31	0.00E+00	91	3.91E-04	211	0.00E+00	271	8.04E-07
192.	32	0.00E+00	92	0.00E+00	212	0.00E+00	272	1.56E-06
198.	33	6.30E-04	93	3.23E-04	213	4.20E-05	273	3.16E-05
204.	34	0.00E+00	94	1.29E-05	214	3.69E-05	274	6.97E-06
210.	35	0.00E+00	95	0.00E+00	215	0.00E+00	275	6.07E-05
216.	36	5.64E-04	96	2.42E-04	216	2.10E-05	276	4.04E-06
222.	37	0.00E+00	97	2.29E-04	217	2.81E-05	277	5.98E-06
228.	38	0.00E+00	98	1.26E-04	218	2.64E-05	278	3.91E-06
234.	39	3.34E-04	99	1.02E-04	219	1.02E-05	279	2.34E-06
240.	40	0.00E+00	100	1.26E-04	220	0.00E+00	280	3.32E-07
246.	41	0.00E+00	101	9.68E-05	221	3.50E-05	281	0.00E+00
252.	42	2.67E-04	102	4.75E-05	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	1.90E-05	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	2.01E-05	224	0.00E+00	284	0.00E+00
270.	45	1.07E-04	105	1.55E-05	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	8.07E-06	226	0.00E+00	286	0.00E+00
282.	48	1.00E-04	108	0.00E+00	228	0.00E+00	288	0.00E+00
324.	54	1.14E-04	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	9.30E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	4.45E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00
BEARING	GLN	1200. M CONC	GLN	1600. M CONC	GLN	2000. M CONC	GLN	2400. M CONC
174.	358	2.71E-06	478	0.00E+00				
180.	360	3.36E-06	480	0.00E+00				
189.	363	5.46E-07	483	3.99E-07				
192.	364	9.82E-07	484	0.00E+00				
195.	365	1.50E-06	485	1.26E-06				
198.	366	2.72E-06	486	1.64E-06				

EOCR TEST 22 NRC STAB E 7/16/76 0742-0842 MST

GAS F AVERAGE WINDS: SPEED 2.4 M/S ; DIRECTION 34. DEGREES
SOURCE STRENGTH 0.1479 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
201.	367	4.01E-06	487	1.66E-06				
204.	368	4.71E-06	488	2.00E-06				
207.	369	1.86E-06	489	1.84E-06				
210.	370	2.89E-06	490	1.09E-06				
213.	371	3.00E-06	491	0.00E+00				
216.	372	4.78E-06	492	0.00E+00				
219.	373	7.10E-06	493	6.79E-06				
222.	374	4.90E-06	494	3.71E-06				
225.	375	2.72E-06	495	0.00E+00				
228.	376	1.10E-06	496	5.56E-07				

TOWER SAMPLES								
HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	4.46E-04	620	3.23E-04	630	0.00E+00	640	0.00E+00
7.5	611	0.00E+00	621	0.00E+00	631	7.36E-05	641	1.94E-05
15.0	612	0.00E+00	622	2.20E-04	632	9.02E-05	642	1.35E-05
23.0	613	5.17E-04	623	1.10E-06	633	1.70E-04	643	1.82E-04
30.5	614	1.20E-04	624	2.10E-04	634	3.30E-05	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6		TOWER 7		TOWER 8	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	650	4.37E-06	660	4.20E-05				
15.0	652	1.03E-04	662	0.00E+00				
30.5	654	7.45E-05	664	0.00E+00				

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	2.29E-04
702	0.20E-04
703	6.12E-04
704	6.56E-04

EOCR TEST 22 NRC STAB E 7/16/76 0742-0842 MST

GAS F AVERAGE WINDS: SPEED 4.7 M/S ; DIRECTION 19. DEGREES
SOURCE STRENGTH 1.2208 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	GLN	50. M CONC	GLN	100. M CONC	GLN	400. M CONC	GLN	800. M CONC
18.	3	7.23E-05	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	6.75E-05	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	0.00E+00	69	2.06E-05	189	0.00E+00	249	0.00E+00
72.	12	0.00E+00	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	0.00E+00	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	18	0.00E+00	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	0.00E+00	81	1.43E-05	201	0.00E+00	261	0.00E+00
138.	23	0.00E+00	83	0.00E+00	203	0.00E+00	263	2.74E-06
144.	24	0.00E+00	84	0.00E+00	204	0.00E+00	264	3.16E-05
150.	25	0.00E+00	85	9.12E-05	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	0.00E+00	206	2.69E-05	266	1.68E-05
162.	27	0.00E+00	87	0.00E+00	207	2.26E-05	267	1.80E-05
168.	28	0.00E+00	88	0.00E+00	208	0.00E+00	268	3.06E-05
174.	29	0.00E+00	89	0.00E+00	209	0.00E+00	269	6.04E-06
180.	30	2.95E-05	90	2.86E-05	210	0.00E+00	270	0.00E+00
186.	31	0.00E+00	91	1.27E-04	211	0.00E+00	271	4.47E-06
192.	32	0.00E+00	92	3.17E-05	212	6.25E-05	272	0.77E-06
198.	33	0.00E+00	93	2.40E-04	213	0.00E+00	273	1.76E-05
204.	34	0.00E+00	94	5.76E-05	214	3.05E-05	274	1.18E-05
210.	35	0.00E+00	95	3.83E-05	215	0.00E+00	275	0.00E+00
216.	36	3.13E-05	96	9.36E-05	216	2.00E-05	276	3.50E-06
222.	37	0.00E+00	97	4.54E-05	217	5.67E-05	277	3.07E-06
228.	38	0.00E+00	98	0.00E+00	218	3.74E-05	278	5.50E-06
234.	39	0.00E+00	99	0.00E+00	219	7.10E-06	279	0.00E+00
240.	40	0.00E+00	100	1.05E-05	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	0.00E+00	221	5.00E-05	281	1.09E-05
252.	42	0.00E+00	102	6.41E-06	222	2.36E-05	282	3.26E-05
258.	43	0.00E+00	103	0.00E+00	223	3.73E-06	283	5.07E-05
264.	44	0.00E+00	104	0.00E+00	224	9.17E-06	284	6.00E-05
270.	45	0.00E+00	105	0.00E+00	225	7.63E-06	285	4.09E-05
276.	46	0.00E+00	106	1.63E-05	226	7.07E-06	286	0.00E+00
282.	48	0.00E+00	108	3.49E-05	228	1.23E-05	288	0.00E+00
294.	49	0.00E+00	109	0.00E+00	229	6.72E-06	289	0.00E+00
306.	51	5.05E-05	111	0.00E+00	231	2.65E-06	291	0.00E+00
342.	57	2.05E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
BEARING	GLN	1200. M CONC	GLN	1600. M CONC	GLN	2000. M CONC	GLN	2400. M CONC
123.	341	3.41E-06	461	0.00E+00				
126.	342	3.07E-06	462	1.40E-05				
129.	343	5.43E-06	463	1.13E-05				
132.	344	3.46E-06	464	9.76E-06				
135.	345	0.00E+00	465	2.40E-05				
138.	346	8.30E-07	466	1.27E-05				
141.	347	0.00E+00	467	3.51E-06				
144.	348	0.00E+00	468	7.32E-06				

EOCR TEST 22 NRC STAB E 7/16/76 0742-0842 MST

GAS F AVERAGE WINDS: SPEED 4.7 M/S ; DIRECTION 19. DEGREES
SOURCE STRENGTH 1.2208 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M	GLN	1600. M	GLN
	CONC	CONC	CONC	CONC
147.	349 2.59E-06	469 0.00E+00		
153.	351 0.00E+00	471 4.27E-06		
156.	352 5.64E-06	472 0.00E+00		
159.	353 6.71E-07	473 1.54E-05		
162.	354 3.05E-06	474 0.00E+00		
165.	355 1.77E-04	475 9.22E-06		
169.	356 5.57E-06	476 0.00E+00		
174.	358 5.75E-05	478 2.53E-06		
180.	360 5.65E-05	480 0.00E+00		
183.	361 4.00E-06	481 4.76E-05		
186.	362 0.00E+00	482 2.25E-05		
192.	364 6.00E-06	484 2.60E-05		
195.	365 0.00E+00	485 6.20E-06		
198.	366 0.00E+00	486 2.83E-06		
204.	368 0.00E+00	488 3.33E-06		
207.	369 8.33E-06	489 4.07E-06		
210.	370 0.00E+00	490 5.74E-06		
219.	373 1.13E-05	493 1.70E-05		
222.	374 1.10E-05	494 1.24E-05		
225.	375 9.39E-06	495 4.70E-06		
228.	376 0.00E+00	496 6.66E-06		
231.	377 1.45E-05	497 0.00E+00		
237.	379 2.98E-05	499 0.00E+00		

TOWER SAMPLES				

EOCR TEST 23 NRC STAB E 7/21/76 0748-0845 MST

GAS F AVERAGE WINDS: SPEED 3.3 M/S ;DIRECTION 15. DEGREES
SOURCE STRENGTH 1.8364 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES							
BEARING	50. M		100. M		400. M		800. M
	GLN	CONC	GLN	CONC	GLN	CONC	GLN
132.	22	0.00E+00	82	0.00E+00	262	7.51E-05	262
136.	23	0.00E+00	83	0.00E+00	263	8.75E-07	263
144.	24	9.14E-06	84	5.57E-06	264	9.11E-06	264
156.	25	0.00E+00	85	1.73E-05	265	1.93E-05	265
156.	26	0.00E+00	86	1.37E-05	266	0.00E+00	266
162.	27	1.65E-04	87	6.23E-05	267	7.98E-05	267
166.	28	0.00E+00	88	9.23E-05	268	0.00E+00	268
174.	29	0.00E+00	89	6.25E-05	269	0.00E+00	269
180.	30	2.36E-04	90	1.43E-04	270	8.79E-06	270
186.	31	0.00E+00	91	1.45E-04	271	7.88E-05	271
192.	32	0.00E+00	92	2.62E-04	272	0.00E+00	272
198.	33	1.12E-04	93	1.98E-04	273	7.48E-06	273
204.	34	0.00E+00	94	1.31E-04	274	1.97E-05	274
210.	35	0.00E+00	95	1.33E-04	275	0.00E+00	275
216.	36	1.17E-05	96	6.19E-05	276	2.38E-06	276
222.	37	0.00E+00	97	1.64E-05	277	1.24E-06	277
226.	38	0.00E+00	98	5.18E-05	278	0.00E+00	278
234.	39	0.00E+00	99	2.05E-06	279	0.00E+00	279
240.	40	0.00E+00	100	0.00E+00	280	0.00E+00	280
256.	45	0.00E+00	103	1.48E-05	283	0.00E+00	283
270.	45	0.00E+00	105	0.51E-07	285	0.00E+00	285
282.	47	0.00E+00	107	1.78E-05	287	0.00E+00	287
306.	50	0.00E+00	110	1.44E-05	289	0.00E+00	289
324.	54	1.41E-06	114	0.00E+00	294	0.00E+00	294
BEARING	1200. M		1600. M				
	GLN	CONC	GLN	CONC			
126.	342	0.00E+00	452	7.38E-07			
129.	343	1.87E-05	453	0.00E+00			
132.	344	2.98E-06	454	0.00E+00			
135.	345	2.73E-06	455	0.00E+00			
138.	345	2.19E-06	456	2.14E-05			
141.	347	0.00E+00	457	1.36E-05			
144.	348	1.49E-06	458	0.00E+00			
147.	349	5.08E-06	459	5.77E-07			
150.	350	1.32E-06	470	3.09E-05			
153.	351	9.95E-06	471	0.00E+00			
156.	352	1.15E-05	472	7.89E-07			
159.	353	1.35E-06	473	0.79E-07			
162.	354	7.13E-07	474	1.41E-05			
165.	355	1.35E-05	475	0.00E+00			
168.	356	2.93E-06	476	0.00E+00			
174.	358	2.35E-06	478	0.00E+00			
177.	359	4.47E-05	479	1.43E-06			

EOCR TEST 22 NRC STAB E 7/16/76 0742-0842 MST

GAS F AVERAGE WINDS: SPEED 4.7 M/S ;DIRECTION 19. DEGREES
SOURCE STRENGTH 1.2289 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES							
BEARING	50. M		100. M		400. M		800. M
	GLN	CONC	GLN	CONC	GLN	CONC	GLN
36.	6	1.33E-06	66	0.00E+00	186	0.00E+00	246
84.	14	0.00E+00	74	7.58E-08	194	0.00E+00	254
90.	15	0.00E+00	75	3.73E-07	195	0.00E+00	255
96.	16	0.00E+00	76	2.87E-07	196	0.00E+00	256
114.	19	0.00E+00	79	2.08E-07	199	0.00E+00	259
126.	21	0.00E+00	81	3.55E-05	201	0.00E+00	261
144.	24	6.32E-06	84	0.00E+00	204	0.00E+00	264
156.	26	0.00E+00	86	1.16E-05	206	0.00E+00	266
162.	27	5.18E-05	87	2.68E-06	207	0.00E+00	267
174.	29	0.00E+00	89	2.44E-05	209	0.00E+00	269
180.	30	2.22E-04	90	6.22E-05	210	0.00E+00	270
186.	31	0.00E+00	91	9.76E-05	211	0.00E+00	271
198.	33	3.23E-04	93	2.36E-04	213	2.55E-05	273
204.	34	0.00E+00	94	3.04E-05	214	2.04E-05	274
210.	35	0.00E+00	95	0.00E+00	215	0.00E+00	275
216.	36	1.20E-04	96	1.16E-04	216	1.57E-05	276
222.	37	0.00E+00	97	6.22E-05	217	1.77E-06	277
228.	38	0.00E+00	98	1.59E-05	218	0.00E+00	278
234.	39	1.64E-05	99	7.08E-05	219	0.00E+00	279
240.	40	0.00E+00	100	3.83E-05	220	0.00E+00	280
268.	48	4.71E-07	108	0.00E+00	228	0.00E+00	288
BEARING	1200. M		1600. M				
	GLN	CONC	GLN	CONC			
180.	360	1.37E-05	480	0.00E+00			
201.	367	0.00E+00	487	1.63E-06			
210.	370	4.47E-07	490	0.00E+00			
219.	373	0.00E+00	493	1.73E-06			
222.	374	1.15E-06	494	2.36E-06			
228.	376	0.00E+00	496	3.50E-07			
237.	379	0.00E+00	499	4.59E-07			

EOCR TEST 22 NRC STAB E 7/16/76 0742-0842 MST

GAS B AVERAGE WINDS: SPEED 4.6 M/S ;DIRECTION 19. DEGREES
SOURCE STRENGTH 0.6286 GM/S RELEASED ROOF

TOWER SAMPLES								
HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	6.22E-05	620	2.36E-04	630	0.00E+00	640	0.00E+00
7.5	611	0.00E+00	621	0.00E+00	631	1.41E-05	641	2.19E-07
15.0	612	0.00E+00	622	2.66E-04	632	5.34E-06	642	1.21E-05
23.0	613	6.69E-05	623	1.01E-06	633	5.70E-06	643	8.93E-05
30.5	614	2.34E-05	624	2.68E-04	634	5.28E-05	644	0.00E+00
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	0.00E+00	660	2.55E-05				
7.5	651	4.41E-07	661	0.00E+00				
15.0	652	2.16E-06	662	0.00E+00				
MISCELLANEOUS SAMPLES								
GROUP 1								
	GLN	CONC						
702	3.78E-06							
703	9.12E-05							

EOCR TEST 23 NRC STAB E 7/21/76 0748-0846 MST

GAS S AVERAGE WINDS: SPEED 1.9 M/S ; DIRECTION 27. DEGREES
SOURCE STRENGTH 0.1573 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	2.86E-04	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	2.24E-03	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	2.98E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	4.30E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	3.07E-03	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	18	1.90E-03	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	1.88E-03	81	0.00E+00	201	0.00E+00	261	0.00E+00
144.	24	1.98E-03	84	0.07E-05	204	0.00E+00	264	0.00E+00
158.	25	0.00E+00	85	3.18E-06	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	2.52E-04	206	0.00E+00	266	0.00E+00
162.	27	1.14E-03	87	2.15E-04	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	3.09E-04	208	1.43E-06	268	5.97E-07
174.	29	0.00E+00	89	1.96E-04	209	4.82E-06	269	0.00E+00
180.	30	0.99E-04	90	3.65E-04	210	6.07E-06	270	0.82E-07
186.	31	0.00E+00	91	2.16E-04	211	1.46E-05	271	2.67E-06
192.	32	0.00E+00	92	3.46E-04	212	1.04E-05	272	2.52E-06
198.	33	3.22E-04	93	2.03E-04	213	1.38E-05	273	3.98E-06
204.	34	0.00E+00	94	2.21E-04	214	1.59E-05	274	0.00E+00
210.	35	0.00E+00	95	2.01E-04	215	1.07E-05	275	2.08E-06
216.	36	2.62E-04	96	1.96E-04	216	7.84E-06	276	1.34E-06
222.	37	0.00E+00	97	0.35E-05	217	3.92E-06	277	2.16E-07
228.	38	0.00E+00	98	3.96E-05	218	1.05E-06	278	0.00E+00
234.	39	1.49E-04	99	2.87E-05	219	0.00E+00	279	1.92E-07
240.	40	0.00E+00	100	2.11E-05	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	1.22E-05	221	0.00E+00	281	0.00E+00
252.	42	7.60E-05	102	1.31E-06	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	1.44E-05	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	1.90E-06	224	0.00E+00	284	0.00E+00
270.	45	4.33E-05	105	2.35E-06	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	8.11E-06	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	1.77E-06	227	0.00E+00	287	0.00E+00
288.	48	4.63E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
300.	50	0.00E+00	110	1.32E-06	230	0.00E+00	290	0.00E+00
306.	51	2.57E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	2.87E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
360.	60	1.33E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00

EOCR TEST 23 NRC STAB E 7/21/76 0748-0846 MST

GAS F AVERAGE WINDS: SPEED 3.3 M/S ; DIRECTION 15. DEGREES
SOURCE STRENGTH 1.8364 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
180.	360	1.36E-05	480	0.00E+00
183.	361	3.62E-07	481	0.00E+00
186.	362	2.43E-05	482	6.37E-06
189.	363	2.57E-06	483	9.63E-07
192.	364	3.34E-06	484	1.82E-06
195.	365	0.00E+00	485	4.04E-06
198.	366	4.47E-06	486	5.02E-06
201.	367	0.00E+00	487	2.42E-06
204.	368	1.74E-05	488	0.00E+00
207.	369	2.06E-05	489	2.04E-06
210.	370	0.00E+00	490	0.00E+00
213.	371	4.43E-06	491	0.00E+00
216.	372	2.74E-05	492	0.00E+00
219.	373	1.44E-05	493	0.00E+00
222.	374	1.40E-05	494	0.00E+00
228.	376	4.47E-06	496	2.01E-06
240.	380	2.08E-06	500	0.63E-07

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.43E-04	620	1.90E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.88E-04	621	1.01E-05	631	3.73E-05	641	8.57E-05
15.0	612	1.55E-04	622	0.00E+00	632	3.96E-05	642	7.67E-05
23.0	613	1.05E-05	623	2.91E-04	633	2.74E-05	643	1.90E-05
30.5	614	1.61E-04	624	2.46E-04	634	2.30E-05	644	2.37E-05

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	0.79E-06	660	7.40E-06
7.5	651	9.93E-06	661	9.20E-06
15.0	652	1.21E-05	662	8.47E-06
23.0	653	1.21E-05	663	1.56E-05
30.5	654	0.00E+00	664	7.84E-06

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
704 4.55E-05

EOCR TEST 23 NRC STAB E 7/21/76 0748-0846 MST

GAS B AVERAGE WINDS: SPEED 1.9 M/S ; DIRECTION 27. DEGREES
SOURCE STRENGTH 0.1573 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
129.	343	0.00E+00	463	1.51E-05
135.	345	0.00E+00	465	5.46E-06
174.	358	1.52E-07	478	0.00E+00
186.	362	4.35E-07	482	0.00E+00
189.	363	1.53E-06	483	2.55E-07
192.	364	9.95E-07	484	2.20E-07
195.	365	2.22E-06	485	1.43E-06
198.	366	2.04E-06	486	1.95E-06
201.	367	2.21E-06	487	2.31E-06
204.	368	3.10E-06	488	9.64E-07
207.	369	2.52E-06	489	1.20E-06
210.	370	2.29E-06	490	1.61E-06
213.	371	1.17E-06	491	0.00E+00
216.	372	1.36E-06	492	0.00E+00
219.	373	3.29E-07	493	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	3.65E-04	620	2.03E-04	630	0.00E+00	640	0.00E+00
7.5	611	2.66E-04	621	0.00E+00	631	6.20E-05	641	8.94E-05
15.0	612	1.84E-04	622	3.01E-06	632	5.04E-05	642	7.77E-05
23.0	613	0.00E+00	623	2.39E-04	633	6.05E-05	643	6.18E-07
30.5	614	9.40E-05	624	1.73E-04	634	2.02E-05	644	3.57E-06

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	6.07E-06	660	1.33E-05
7.5	651	9.15E-06	661	9.97E-06
15.0	652	1.29E-05	662	1.60E-05
23.0	653	9.38E-06	663	1.63E-05
30.5	654	0.00E+00	664	6.90E-06

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
701 9.77E-04
702 1.85E-03
703 1.22E-03
704 9.79E-04

EOCR TEST 23 NRC STAB E 7/21/76 0748-0846 MST

GAS B AVERAGE WINDS: SPEED 3.2 M/S ; DIRECTION 15. DEGREES
SOURCE STRENGTH 0.6356 GM/S RELEASED ROOF

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
144.	24	0.00E-05	84	1.56E-07	204	0.00E+00	264	0.00E+00
156.	26	0.00E+00	86	1.26E-05	206	0.00E+00	266	0.00E+00
162.	27	3.86E-04	87	1.59E-05	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	1.31E-04	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	1.42E-04	209	0.00E+00	269	0.00E+00
180.	30	3.10E-04	90	3.53E-04	210	0.00E+00	270	0.00E+00
185.	31	0.00E+00	91	2.86E-04	211	6.57E-06	271	0.00E+00
192.	32	0.00E+00	92	5.22E-04	212	1.40E-05	272	0.00E+00
198.	33	3.09E-04	93	2.96E-04	213	1.92E-05	273	0.00E+00
204.	34	0.00E+00	94	2.64E-04	214	0.00E+00	274	0.00E+00
210.	35	0.00E+00	95	2.52E-04	215	1.17E-05	275	0.00E+00
216.	36	1.64E-04	96	1.42E-04	216	4.62E-06	276	0.00E+00
222.	37	0.00E+00	97	1.52E-05	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	4.04E-06	218	0.00E+00	278	0.00E+00
234.	39	6.70E-06	99	0.00E+00	219	0.00E+00	279	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	3.53E-04	620	2.96E-04	630	0.00E+00	640	0.00E+00
7.5	611	3.47E-04	621	0.00E+00	631	6.79E-05	641	1.51E-04
15.0	612	2.89E-04	622	0.00E+00	632	5.31E-05	642	5.41E-05
23.0	613	0.00E+00	623	1.98E-04	633	4.69E-05	643	0.00E+00
30.5	614	2.05E-04	624	4.34E-04	634	6.00E-06	644	6.22E-06

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	0.00E+00	660	1.92E-05
7.5	651	3.97E-06	661	1.45E-05
15.0	652	3.01E-06	662	1.96E-05
23.0	653	2.28E-06	663	2.75E-05
30.5	654	0.00E-05	664	9.56E-06

MISCELLANEOUS SAMPLES

GROUP 1
GLN CONC
703 7.61E-05
704 1.52E-04

EOCR TEST 24 NRC STAB F 7/22/76 0814-0914 MST

GAS S AVERAGE WINDS: SPEED 1.8 M/S ; DIRECTION 29. DEGREES
SOURCE STRENGTH 0.1543 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
18.	3	6.21E-04	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	2.90E-03	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	3.63E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	3.25E-03	72	0.00E+00	192	0.00E+00	252	0.00E+00
108.	18	1.64E-03	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	1.12E-03	81	0.00E+00	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	3.01E-05	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	2.74E-05	203	1.74E-07	263	0.00E+00
144.	24	1.02E-03	84	0.00E+00	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	1.05E-04	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	0.50E-05	206	0.00E+00	266	0.00E+00
162.	27	1.10E-03	87	1.21E-04	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	1.33E-04	208	9.74E-07	268	0.00E+00
174.	29	0.00E+00	89	1.71E-04	209	1.36E-05	269	4.63E-07
180.	30	7.80E-04	90	2.05E-04	210	2.16E-05	270	0.00E+00
186.	31	0.00E+00	91	2.07E-04	211	2.95E-05	271	0.00E+00
192.	32	0.00E+00	92	2.49E-04	212	7.40E-05	272	1.06E-06
198.	33	5.05E-04	93	2.59E-04	213	9.32E-05	273	1.32E-06
204.	34	0.00E+00	94	1.00E-04	214	1.06E-05	274	1.89E-06
210.	35	0.00E+00	95	1.86E-04	215	0.00E+00	275	1.40E-06
216.	35	5.59E-04	96	2.69E-04	216	1.72E-05	276	1.91E-06
222.	37	0.00E+00	97	2.20E-04	217	1.59E-05	277	2.87E-06
228.	38	0.00E+00	98	1.80E-04	218	1.55E-05	278	1.23E-06
234.	39	4.75E-04	99	1.69E-04	219	7.05E-05	279	4.94E-07
240.	40	0.00E+00	100	1.02E-04	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	9.82E-05	221	0.00E+00	281	0.00E+00
252.	42	2.73E-04	102	5.21E-05	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	3.93E-05	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	1.96E-05	224	0.00E+00	284	0.00E+00
270.	45	1.37E-04	105	4.76E-06	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	2.35E-05	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	6.62E-07	227	0.00E+00	287	0.00E+00
288.	48	8.74E-05	108	1.73E-06	228	0.00E+00	288	0.00E+00
294.	49	0.00E+00	109	5.24E-07	229	0.00E+00	289	0.00E+00
306.	51	7.91E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	1.45E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	7.77E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	4.59E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00

EOCR TEST 24 NRC STAB F 7/22/76 0814-0914 MST

GAS S AVERAGE WINDS: SPEED 1.8 M/S ; DIRECTION 29. DEGREES
SOURCE STRENGTH 0.1543 GM/S RELEASED GROUND

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
147.	349	2.59E-07	469	0.00E+00
174.	358	0.00E+00	478	6.07E-07
180.	360	0.00E+00	480	2.03E-06
186.	362	2.51E-07	482	1.29E-06
189.	363	0.00E+00	483	5.39E-07
192.	364	9.54E-07	484	0.00E+00
198.	366	5.20E-07	486	1.16E-06
201.	367	1.04E-06	487	0.70E-07
204.	368	5.63E-07	488	0.00E+00
207.	369	1.23E-06	489	0.00E+00
210.	370	9.28E-07	490	2.67E-06
213.	371	2.45E-06	491	1.07E-06
216.	372	1.60E-06	492	4.11E-07
219.	373	0.00E+00	493	3.33E-07
225.	375	6.40E-07	495	0.00E+00
228.	376	5.25E-07	496	0.00E+00
240.	380	1.97E-07	500	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	2.05E-04	620	2.59E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.70E-04	621	4.74E-05	631	4.65E-05	641	2.04E-06
15.0	612	1.17E-04	622	1.02E-04	632	5.36E-05	642	3.42E-06
23.0	613	5.53E-05	623	7.33E-05	633	4.96E-05	643	5.46E-05
30.5	614	6.32E-05	624	1.06E-04	634	5.51E-05	644	1.30E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	2.16E-06	660	9.32E-06				
7.5	651	5.31E-06	661	1.04E-05				
15.0	652	3.70E-06	662	4.75E-06				
23.0	653	1.14E-06	663	1.06E-05				
30.5	654	0.00E+00	664	1.20E-05				

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	1.22E-03
702	1.40E-03
703	1.12E-03
704	1.17E-03

EOCR TEST 24 NRC STAB F 7/22/76 0814-0914 MST

GAS F AVERAGE WINDS: SPEED 3.2 M/S ; DIRECTION 18. DEGREES
SOURCE STRENGTH 1.8242 GM/S RELEASED STACK

DOWNWIND DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
150.	25	0.00E+00	85	0.00E+00	205	0.00E+00	255	3.09E-06
156.	26	0.00E+00	86	2.29E-05	206	0.00E+00	256	2.09E-06
162.	27	0.00E+00	87	1.77E-05	207	0.00E+00	257	2.67E-06
168.	28	0.00E+00	88	3.17E-05	208	0.00E+00	258	0.00E+00
174.	29	0.00E+00	89	6.14E-05	209	2.08E-05	259	1.59E-06
180.	30	1.32E-04	90	1.03E-04	210	5.14E-05	260	2.09E-06
186.	31	0.00E+00	91	1.34E-04	211	0.00E+00	261	0.00E+00
192.	32	0.00E+00	92	1.12E-04	212	7.68E-05	262	0.00E+00
198.	33	2.29E-05	93	1.31E-04	213	3.49E-06	263	0.00E+00
204.	34	0.00E+00	94	1.03E-04	214	5.49E-06	264	3.17E-06
210.	35	0.00E+00	95	0.13E-05	215	0.00E+00	265	0.00E+00
216.	35	0.00E+00	95	7.29E-05	216	1.45E-05	266	0.00E+00
222.	37	0.00E+00	97	2.68E-05	217	7.55E-06	267	0.00E+00
228.	38	0.00E+00	98	0.00E+00	218	3.18E-06	268	0.00E+00
234.	39	0.00E+00	99	0.00E+00	219	2.91E-06	269	1.78E-06
240.	40	0.00E+00	100	0.00E+00	220	0.00E+00	270	9.83E-06
246.	41	0.00E+00	101	0.00E+00	221	0.00E+00	271	7.18E-06
252.	43	0.00E+00	103	7.83E-07	223	0.00E+00	273	0.00E+00
300.	50	0.00E+00	110	1.02E-06	230	0.00E+00	280	0.00E+00
324.	54	3.02E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	3.63E-07	117	0.00E+00	237	0.00E+00	297	0.00E+00
BEARING	1200. M		1600. M					
	GLN	CONC	GLN	CONC				
123.	341	2.44E-06	451	0.00E+00				
129.	343	2.22E-06	453	1.04E-06				
135.	345	8.98E-07	455	1.07E-06				
138.	346	1.29E-06	456	2.53E-06				
141.	347	1.30E-06	457	1.58E-06				
144.	348	0.00E+00	458	1.17E-06				
147.	349	4.47E-06	459	0.00E+00				
150.	350	1.95E-06	470	1.08E-06				
156.	352	0.00E+00	472	1.54E-05				
159.	353	3.97E-06	473	0.00E+00				
162.	354	1.45E-06	474	1.76E-06				
168.	356	1.06E-06	476	3.00E-06				
174.	358	3.51E-06	478	1.48E-06				
177.	359	1.72E-06	479	5.30E-06				
180.	360	0.00E+00	480	1.27E-05				
183.	361	0.00E+00	481	5.27E-06				
186.	362	3.29E-06	482	3.01E-06				
189.	363	3.67E-06	483	0.00E+00				
192.	364	2.31E-06	484	0.00E+00				
195.	365	2.09E-06	485	0.00E+00				

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.08E-04	620	1.31E-04	630	0.00E+00	640	0.00E+00
7.5	611	9.50E-05	621	1.61E-05	631	1.85E-05	641	1.27E-05
15.0	612	2.14E-05	622	7.76E-05	632	2.45E-05	642	1.22E-05
23.0	613	2.43E-05	623	4.80E-05	633	1.57E-05	643	4.08E-05
30.5	614	1.03E-04	624	2.76E-04	634	1.64E-05	644	1.57E-05
HEIGHT	TOWER 5		TOWER 6					
	GLN	CONC	GLN	CONC				
0.5	650	5.14E-06	660	3.40E-05				
7.5	651	4.83E-06	661	4.36E-06				
15.0	652	0.00E+00	662	9.84E-06				
23.0	653	0.00E+00	663	6.10E-06				
30.5	654	0.00E+00	664	7.99E-06				

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC

EOCR TEST 24 NRC STAB F 7/22/76 0314-0914 MST

GAS D AVERAGE WINDS: SPEED 3.1 M/S ; DIRECTION 10. DEGREES
SOURCE STRENGTH 0.6005 GN/S RELEASED ROOF

DOWNWIND DISTANCE (M) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
144.	24	1.88E-05	84	0.00E+00	204	0.00E+00	264	0.00E+00
162.	27	1.88E-04	87	1.56E-05	207	0.00E+00	267	0.00E+00
160.	28	0.00E+00	88	3.32E-05	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	0.11E-03	209	0.00E+00	269	0.00E+00
180.	30	2.74E-04	90	7.94E-05	210	0.00E+00	270	0.00E+00
185.	31	0.00E+00	91	1.09E-04	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	1.25E-04	212	1.50E-05	272	0.00E+00
198.	33	1.75E-04	93	1.22E-04	213	3.60E-05	273	0.00E+00
204.	34	0.00E+00	94	9.15E-05	214	5.60E-07	274	0.00E+00
210.	35	0.00E+00	95	0.06E-05	215	0.00E+00	275	0.00E+00
216.	36	5.85E-05	96	0.21E-05	216	6.60E-06	276	0.00E+00
222.	37	0.00E+00	97	4.10E-05	217	5.57E-06	277	0.00E+00
226.	38	0.00E+00	98	1.11E-05	218	1.64E-05	278	0.00E+00
234.	39	3.00E-06	99	0.00E+00	219	0.00E+00	279	0.00E+00

BEARING 1200. M 1600. M
GLN CONC GLN CONC

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	7.94E-05	620	1.22E-04	630	0.00E+00	640	0.00E+00
7.5	611	8.94E-05	621	0.00E+00	631	0.00E+00	641	0.00E+00
15.0	612	1.65E-05	622	6.45E-05	632	3.60E-06	642	0.00E+00
23.0	613	4.44E-06	623	1.39E-05	633	0.00E+00	643	3.55E-05
30.5	614	5.03E-05	624	2.10E-04	634	0.00E+00	644	0.00E+00

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	0.60E+00	660	3.60E-05
7.5	651	0.00E+00	661	5.60E-05
15.0	652	0.00E+00	662	3.60E-07
23.0	653	3.33E-06	663	5.60E-05
30.5	654	1.86E-05	664	4.73E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
703	3.49E-05
704	1.20E-04

APPENDIX E: Ground Release Concentration Isopleths for Each Test.

Units are m^{-2} . Appendix D lists the individual values of concentration that form the basis for these isopleths. Figure 5 of the text depicts the site topography, which was considered during the isopleth analyses. Appendix A lists the temperature measurements that formed the basis for designating a stability category. Each sampler position in the 400 m, 800 m, 1200 m, and 1600 m arcs is shown. Isopleth analyses are ordered in the sequence shown in table E-1. Stability class A figures are given first and plots are ranked by windspeed; the lowest windspeed is first.

Table E-1. Stability and Windspeed Ordering of Isopleth Analyses.

Stability	Test Number	Windspeed 30 m (m/sec)
A	11	1.5
A	13	2.1
A	10	3.8
A	5	9.0
D	6	2.8
D	16	3.7
D	15	4.9
E	23	3.3
E	14	3.4
E	12	3.5
E	4	4.4
E	22	4.7
F	3	1.3
F	8	1.8
F	24	3.2
F	18	6.9
G	7	0.7
G	17	2.5
G	21	4.0
G	9	4.1
G	19	4.5
G	20	5.6

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APPENDIX F: Roof Release Concentration Isopleths for Each Test.

Units are m^{-2} . Appendix D lists the individual values of concentration that form the basis for these isopleths. Figure 5 of the text depicts the site topography, which was considered during the isopleth analyses. Appendix A lists the temperature measurements that formed the basis for designating a stability category. Each sampler position in the 400 m, 800 m, 1200 m, and 1600 m arcs is shown. Isopleth analyses are ordered in the sequence shown in table F-1. Stability class A figures are given first and plots are ranked by windspeed; the lowest windspeed is first.

Table F-1. Stability and Windspeed Ordering of Isopleth Analyses.

Stability	Test Number	Windspeed 30 m (m/sec)
A	11	1.5
A	13	2.1
A	10	3.8
A	5	9.0
D	6	2.8
D	16	3.7
D	15	4.9
E	23	3.3
E	14	3.4
E	12	3.5
E	4	4.4
E	22	4.7
F	3	1.3
F	8	1.8
F	24	3.2
F	18	6.9
G	7	0.7
G	17	2.5
G	21	4.0
G	9	4.1
G	19	4.5
G	20	5.6

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METERS
0 400 800

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APPENDIX G: Stack Release Concentration Isopleths for Each Test..

Units are m^{-2} . Appendix D lists the individual values of concentration that form the basis for these isopleths. Figure 5 of the text depicts the site topography, which was considered during the isopleth analyses. Appendix A lists the temperature measurements that formed the basis for designating a stability category. Each sampler position in the 400 m, 800 m, 1200 m, and 1600 m arcs is shown. Isopleth analyses are ordered in the sequence shown in table G-1. Stability class A figures are given first and plots are ranked by windspeed; the lowest windspeed is first.

Table G-1. Stability and Windspeed Ordering of Isopleth Analyses.

Stability	Test Number	Windspeed 30 m (m/sec)
A	11	1.5
A	13	2.1
A	10	3.8
A	5	9.0
D	6	2.8
D	16	3.7
D	15	4.9
E	23	3.3
E	14	3.4
E	12	3.5
E	4	4.4
E	22	4.7
F	3	1.3
F	8	1.8
F	24	3.2
F	18	6.9
G	7	0.7
G	17	2.5
G	21	4.0
G	9	4.1
G	19	4.5
G	20	5.6

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APPENDIX H: Plots of Peak Ground-level Concentrations, Sigma-y, and Sigma-z.

This appendix contains plots of three different diffusion parameters or statistics vs distance with separate plots for each stability category. The first three sets of plots contain measured peak concentrations and curves of Pasquill-Gifford predictions of peak concentrations at 1m, 10m, 25m, and 30m. Curves of predicted concentration with values less than 10^{-8} were truncated to 10^{-8} for plotting convenience and consistency of resolution of data within the autoscaled plots. There is a set of plots for each release height.

The next set of plots contain measured σ_y values, a first order regression line for these values, and a curve of Pasquill-Gifford predictions of σ_y . All release heights are combined on each plot.

The last set of plots contain all the measured values of peak concentrations, σ_y , and σ_z with all stability classes included on each plot. Curves of Pasquill-Gifford predictions for these statistics are also included on these plots.

STACK RELEASE
EOCR PEAK CU/Q STABILITY=A 10/26/78

STACK RELEASE
EOCR PEAK CU/Q STABILITY=D 10/26/78

STACK RELEASE
EOCR PEAK CU/Q STABILITY=E 10/26/78

STACK RELEASE
EOCR PEAK CU/Q STABILITY=F 10/26/78

STACK RELEASE
EOCR PEAK CU/Q STABILITY=G 10/26/78

ROOF RELEASE
EOCR PEAK CU/Q STABILITY=A 10/26/78

ROOF RELEASE
EOCR PEAK CU/Q STABILITY=D 10/26/78

ROOF RELEASE
EOCR PEAK CU/Q STABILITY=E 10/26/78

ROOF RELEASE
EOCR PEAK CU/Q STABILITY=F 10/26/78

ROOF RELEASE
EOCR PEAK CU/Q STABILITY=G 10/26/78

GROUND RELEASE
EOCR PEAK CU/Q STABILITY=A 10/26/78

GROUND RELEASE
EOCR PEAK CU/Q STABILITY=D 10/26/78

GROUND RELEASE
EOCR PEAK CU/Q STABILITY=E 10/26/78

GROUND RELEASE
EOCR PEAK CU/Q STABILITY=F 10/26/78

GROUND RELEASE
EOCR PEAK CU/Q STABILITY=G 10/26/78

ALL RELEASES
EOCR SIGMA Y C.M. STABILITY=A 10/26/78

ALL RELEASES
EOCR SIGMA Y C.M. STABILITY=D 10/26/78

ALL RELEASES
EOCR SIGMA Y C.M. STABILITY=E 10/27/78

ALL RELEASES
EOCR SIGMA Y C.M. STABILITY=F 10/27/78

ALL RELEASES
EOCR SIGMA Y C.M. STABILITY=G 10/27/78

CHI PEAK (MEANS) FOR ALL RELEASES
ALL TESTS INCLUDED 11/24/78

SIGMA Y C.M. MEANS ALL RELEASES
ALL TESTS INCLUDED 11/24/78

APPENDIX I: Numerical Methods for Calculation of Sigma-z Roots

From the eqn. 6 σ_z is seen to be related to σ_z (effective) through the following non-linear expression

$$\sigma_z(\text{effective}) = \sigma_z \exp \left\{ \frac{1}{2} \left(\frac{H}{\sigma_z} \right)^2 \right\} = \frac{2 Q}{\pi u \text{CIC}(x;H)} \quad (\text{I-1})$$

If σ_z (effective) is determined from measurements of tracer concentration, windspeed, and source strength, and if an approximate plume axis height H is chosen, initial estimates of σ_z may be determined numerically. Although plume geometry departures from Gaussian are probable, and particularly near the structure, useful estimates of σ_z may be obtained for use in the Gaussian equation. Two roots of eqn (I-1) are possible; one root (lower or smaller) occurs when $H \gg \sigma_z$ and the plume mass distribution is not uniform (assumed to be quasi-Gaussian). The second (upper or larger) root occurs when $H \approx \sigma_z$ and $\sigma_z \approx 0.6 \sigma_z$ effective; in this situation the plume is well-mixed (at least below a "plume axis of sorts" which may even be a capping stable layer).

Equation (I-1) is solved by two separate numerical techniques. The Newton-Raphson iteration (Dorn and McCracken, 1972) is used on the lower (Gaussian solution) root which occurs where the solution curve attains a large negative slope. The method of false position (Conte, 1965) is used for the upper root (quasi uniformly mixed plume) which occurs along the solution curve with small positive to near-zero slope.

APPENDIX J: Complete Listing of Meteorological and Diffusion Parameters

This array is the basis for the statistical plots and summaries presented in the results section. Data are provided for each tracer gas (1=SF₆, 2=F12, 3=12B2) and each sampling arc (1=50m, 2=100m, 3=400m, 5=1200m, 6=1600m) by each test. Ground tracer release data are not included for the 50m arc. The identification code IDENT allows unique description of each subset of information within the listed array.

Definitions of Meteorological and Diffusion Parameters.

IDENT Identification of data segment composed of four digits in the form TTAG where TT is the test number, A the arc number, and G the gas number.

STAB 1-7 NRC stability categories in 1=A, 2=B, etc.

CHI PEAK Chi u/Q maximum in m⁻².

SY C.M. Sigma-y in meters as calculated from equation 4 in text.

C.M. Position of center of mass in meters as calculated from equation 5 in text.

SZ EFF Sigma-z (effective in meters as calculated from the crosswind integrated concentration. Eq. 6 in text.

CIC NORM Normalized crosswind integrated concentration g/m².

SY Sigma-y in meters.

RLSE HT Release height of tracer in meters.

DWD(M) Downwind distance of arc in meters.

LOWER Lower root calculation for σ_z in meters. Assumed plume axis heights for ground and roof releases - 25m, stack release - 30m.

UPPER Upper root calculation for σ_z in meters. Assumed plume axis heights for ground and roof releases - 25M, stack release - 30m.

SY PG Pasquill-Gifford estimate of σ_y (meters).

RATIO SY Ratio of σ_y measured/P-G value.

SZ PG Pasquill-Gifford estimate of σ_z (meters).

RATIO SZ Ratio of σ_z (lower root calculation). /P-G value.

CHI PG Pasquill-Gifford estimate of maximum $\text{Chi } u/Q$ (m^{-2}) at ground-level.¹

RATIO C Ratio of P-G value of maximum $\text{Chi } u/Q$ divided by the observed value.²

- 1 Estimated ground-level normalized concentration values were calculated using eqn. (2) with $y=0$. When calculated values were less than the minimum detectable or background value, the background normalized concentrations were substituted. At 100m downwind typical background values for stability class F were about $5 \times 10^{-12} \text{m}^{-2}$. Equation (2) values were about 4×10^{-29} when a Gaussian distribution was applied to a roof height plume.
- 2 At short distances during stable conditions much smaller values could have been utilized were Gaussian distribution assumptions used instead of substitution of background concentrations, as described in footnote 1.

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER: SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
1	311.00 518.52 10.779 8.4202	6.0000 1.53879E-03 517.65 1.03267E-11	3.24681E-05 29.098 2.4718 3.18058E-07	15.198 30.000 6.1504	3.1323 50.000 1.2801
2	321.00 269.18 12.034 5.3553	6.0000 2.96505E-03 267.41 3.14563E-12	7.76979E-05 15.614 4.6210 4.04054E-08	16.677 30.000 3.6098	5.8955 100.00 2.2472
3	331.00 127.14 14.366 2.0836	6.0000 6.27568E-03 123.44 2.63912E-07	5.02097E-05 45.348 16.161 5.25619E-03	55.422 30.000 3.4295	25.286 400.00 6.8947
4	411.00 78.207 17.256 9.0741	5.0000 1.02023E-02 71.641 4.79003E-12	1.06754E-04 14.071 3.5799 2.56917E-08	11.168 30.000 3.1196	3.0031 50.000 1.9017
5	421.00 45.199 27.415 7.8565	5.0000 1.76527E-02 27.415 1.39820E-12	4.31344E-04 15.741 6.6947 3.24168E-09	16.708 30.000 2.5055	6.3283 100.00 3.4894
6	431.00 28.466 17.266 1.5754	5.0000 2.88293E-02 17.266 3.00710E-05	2.46480E-04 33.772 23.413 0.12208	43.659 30.000 1.8648	25.644 400.00 10.960
7	441.00 31.541 19.131 1.0446	5.0000 2.52964E-02 19.131 1.04036E-04	9.01725E-05 117.64 43.784 1.1537	117.57 30.000 2.6852	47.021 000.00 10.315

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER: SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
8	511.00 8.3686 5.0758 0.67915	1.0000 9.53432E-02 5.0758 1.22704E-06	2.29838E-03 18.629 12.519 5.33890E-04	12.246 30.000 0.97815	2.4216 50.000 7.4737
9	521.00 6.0168 3.6494 0.25521	1.0000 0.13261 3.6494 1.06152E-04	1.97887E-03 25.249 23.412 5.36438E-02	22.678 30.000 0.96831	5.6062 100.00 14.308
10	531.00 22.237 13.487 0.16167	1.0000 3.58817E-02 13.487 4.36798E-05	1.05882E-04 75.082 81.877 0.23499	67.292 30.000 0.82186	23.062 400.00 83.425
11	611.00 42.291 25.651 10.344	4.0000 1.08665E-02 25.651 2.61641E-12	3.20823E-04 31.558 5.0345 8.15530E-09	15.117 30.000 3.0028	2.2083 50.000 2.4798
12	621.00 28.151 17.074 3.7470	4.0000 2.03438E-02 17.074 6.33819E-12	3.24693E-04 60.848 9.4148 1.94960E-08	27.294 30.000 2.8990	4.7448 100.00 4.5568
13	631.00 24.038 14.580 0.94710	4.0000 3.31928E-02 14.580 9.45872E-05	6.52322E-05 252.09 32.926 1.4500	105.38 30.000 3.2004	19.613 400.00 15.394
14	641.00 35.389 21.465 0.80831	4.0000 2.25468E-02 21.465 1.02061E-04	2.61280E-05 423.47 61.573 3.9358	203.73 30.000 3.3087	42.673 800.00 26.555

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER: SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
15	711.00 51.906 24.448 26.373	7.0000 1.53718E-02 38.809 2.22261E-11	3.93790E-04 56.598 1.7056 5.64416E-08	13.975 30.000 8.1935	1.5460 50.000 0.86165
16	721.00 94.619 15.878 10.972	7.0000 8.43262E-03 89.443 7.07654E-12	1.15003E-04 100.73 3.1896 6.15335E-08	45.289 30.000 14.174	6.1797 100.00 1.4472
17	731.00 690.69 10.350 2.3661	7.0000 1.15487E-03 690.24 9.83704E-13	8.35569E-06 514.52 11.155 1.17729E-07	182.88 30.000 16.388	28.939 400.00 4.3375
18	741.00 114.64 14.835 1.9679	7.0000 6.95970E-03 110.49 8.34195E-07	9.01683E-06 539.06 20.860 9.25235E-02	283.11 30.000 13.572	49.176 800.00 7.5384
19	811.00 61.275 20.887 15.692	6.0000 1.30214E-02 51.828 1.03267E-11	1.99704E-04 32.393 2.4718 5.17103E-08	13.534 30.000 5.4769	2.1946 50.000 1.2801
20	821.00 58.337 26.974 9.3335	6.0000 1.36772E-02 47.974 3.14563E-12	2.47513E-04 56.469 4.6210 1.27090E-08	24.828 30.000 5.3729	4.4888 100.00 2.2472
21	831.00 378.08 11.326 1.6427	6.0000 2.11035E-03 376.69 2.63912E-07	1.46631E-05 92.625 16.161 1.79984E-02	49.280 30.000 3.8494	12.803 800.00 6.8947

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER: SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
22	841.00 1845.5 9.8184 0.83561	6.0000 7.63125E-04 1845.1 3.51198E-05	2.14702E-06 111.18 30.222 4.6357	110.19 30.000 3.6461	47.571 800.00 11.750
23	921.00 34.503 20.927 14.461	7.0000 2.31251E-02 20.927 7.07654E-12	2.69916E-04 42.307 3.1896 2.62176E-08	21.627 30.000 6.7903	3.9168 100.00 1.4472
24	931.00 69.844 18.348 4.2380	7.0000 1.14238E-02 62.166 9.83704E-13	3.65050E-05 207.83 11.155 2.55474E-08	98.052 30.000 8.7901	28.046 400.00 4.3375
25	941.00 58.857 20.799 2.7591	7.0000 1.35564E-02 48.673 8.34195E-07	2.35526E-05 455.41 20.860 3.54184E-02	190.97 30.000 9.1545	37.228 800.00 7.5384
26	1021.0 48.436 24.525 1.7151	1.0000 1.97323E-02 24.525 1.06152E-04	2.39543E-04 56.648 23.412 0.44314	31.165 30.000 1.3311	5.6108 100.00 14.308
27	1031.0 157.28 13.548 0.16239	1.0000 5.07305E-03 154.34 4.36798E-05	1.99417E-05 206.47 81.877 2.1904	114.92 30.000 1.4036	24.021 400.00 83.425
28	1041.0 466.02 10.954 3.72567E-02	1.0000 1.71213E-03 465.05 7.03410E-06	2.81364E-06 309.48 153.12 2.5000	174.45 30.000 1.1394	44.443 800.00 294.00

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
29	1111.0 3280.9 6.7102 1.1654	1.0000 2.43192E-04 3280.8 1.22704E-06	3.59822E-06 61.308 12.519 0.34101	23.678 30.000 1.8913	3.0114 50.000 7.4737
38	1121.0 1200.4 9.6599 0.67553	1.0000 6.64675E-04 1200.0 1.06152E-04	5.32849E-06 134.51 23.412 19.922	45.845 30.000 1.9581	5.5550 100.00 14.300
31	1131.0 10225. 7.9264 9.50123E-02	1.0000 7.00333E-05 10225. 4.36798E-05	1.73158E-07 250.47 81.877 252.25	103.90 30.000 1.2689	19.059 400.00 83.425
32	1211.0 5606.2 8.3115 4.3704	5.0000 1.42323E-04 5606.1 4.79803E-12	8.96288E-06 7.5724 3.5799 5.35322E-07	0.5647 30.000 2.3924	3.2600 50.000 1.9017
33	1221.0 1002.7 9.8660 2.8280	5.0000 7.95719E-04 1002.3 1.79828E-12	3.24214E-05 12.334 6.6947 4.31283E-08	17.052 30.000 2.6666	6.5132 100.00 3.4834
34	1231.0 271.64 12.012 1.0361	5.0000 2.93733E-03 269.96 3.00710E-05	2.07645E-05 46.383 23.413 1.4482	61.149 30.000 2.6118	25.725 400.00 10.960
35	1241.0 171.82 13.252 0.72359	5.0000 4.64363E-03 169.14 1.04036E-04	2.18386E-05 144.42 43.784 4.7639	133.81 30.000 3.0561	52.407 800.00 18.315

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
43	1442.0 2.9986 1.8188 9.93066E-02	5.0000 0.26608 1.8188 1.04036E-04	6.25512E-04 450.09 43.784 0.16632	314.98 30.000 7.1923	56.379 800.00 18.315
44	1452.0 0.73563 0.44618 1.82107E-02	5.0000 1.0846 0.44618 9.72637E-05	2.22767E-03 718.39 63.145 4.36616E-02	232.04 30.000 3.6747	32.268 1200.0 24.501
45	1462.0 0.88990 0.53975 1.80722E-02	5.0000 0.89668 0.53975 7.05964E-05	2.03123E-03 1031.7 81.879 3.06941E-02	380.65 30.000 4.6489	54.913 1600.0 29.866
46	1512.0 56.929 21.494 8.6677	4.0000 1.40155E-02 46.033 2.61641E-12	1.73795E-04 34.557 5.0345 1.50546E-08	13.520 30.000 2.6856	2.2654 50.000 2.4798
47	1522.0 20.259 17.140 3.7614	4.0000 2.82349E-02 17.140 6.33019E-12	3.02694E-04 34.224 9.4148 1.65411E-09	25.252 30.000 2.6822	5.6402 100.00 4.5568
48	1532.0 33.051 20.045 1.3022	4.0000 2.41411E-02 20.045 9.45872E-05	1.17609E-04 185.19 32.926 0.00425	100.41 30.000 3.2927	22.083 400.00 15.394
49	1542.0 20.004 12.133 0.45698	4.0000 3.98065E-02 12.133 1.02861E-04	4.47653E-05 379.48 61.573 2.2978	197.82 30.000 3.2128	40.753 800.00 26.555

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
36	1311.0 425.03 11.113 1.4869	1.0000 1.07726E-03 423.96 1.22704E-06	5.16883E-05 42.518 12.519 2.37768E-02	16.814 30.000 1.3438	2.3216 50.000 7.4737
37	1321.0 221.83 12.510 0.87485	1.0000 3.59685E-03 219.77 1.06152E-04	4.75870E-05 91.631 23.412 2.2307	31.366 30.000 1.3397	4.3203 100.00 14.300
38	1331.0 464.31 10.960 0.13137	1.0000 1.71844E-03 463.33 4.36798E-05	2.00926E-05 381.60 81.877 2.1739	169.85 30.000 2.0744	23.191 400.00 83.425
39	1341.0 314.38 11.692 3.97684E-02	1.0000 2.53795E-03 312.94 7.03410E-06	4.49834E-06 1137.2 153.12 1.5672	316.23 30.000 2.0653	39.014 800.00 294.00
40	1412.0 35.216 21.360 11.232	5.0000 2.26569E-02 21.360 4.79803E-12	3.67125E-04 86.185 3.5799 1.30692E-08	26.534 30.000 7.4120	3.1727 50.000 1.9017
41	1422.0 7.6165 4.6196 1.3239	5.0000 0.10476 4.6196 1.59828E-12	1.20751E-03 99.505 6.6947 1.15789E-09	45.753 30.000 6.9342	6.8678 100.00 3.4094
42	1432.0 2.6664 1.6172 0.14756	5.0000 0.29924 1.6172 3.00710E-05	1.70943E-03 206.36 23.413 1.75912E-02	104.77 30.000 4.4747	18.376 400.00 10.960

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
50	1552.0 16.434 9.9679 0.27773	4.0000 4.05498E-02 9.9679 7.04172E-05	5.16494E-05 637.68 88.802 1.3634	258.56 30.000 2.9116	38.440 1200.0 35.891
51	1562.0 18.555 11.254 0.25744	4.0000 4.30016E-02 11.254 4.99620E-05	4.83570E-05 981.29 115.15 1.0332	276.77 30.000 2.4836	39.428 1600.0 43.715
52	1622.0 20.482 12.424 2.7264	4.0000 3.05531E-02 12.424 6.33019E-12	5.17164E-04 61.168 9.4148 1.22402E-08	38.192 30.000 4.0565	5.9110 100.00 4.5568
53	1632.0 32.020 19.421 1.2616	4.0000 2.49183E-02 19.421 9.45872E-05	9.26286E-05 183.52 32.926 1.0211	97.609 30.000 2.9645	21.539 400.00 15.394
54	1642.0 19.660 11.925 0.44905	4.0000 4.05838E-02 11.925 1.02861E-04	9.92351E-05 347.62 61.573 1.0365	262.01 30.000 4.2553	60.168 800.00 26.555
55	1652.0 18.094 10.974 0.38577	4.0000 4.40971E-02 10.974 7.04172E-05	6.76893E-05 582.04 88.802 1.0403	251.15 30.000 2.8282	37.344 1200.0 35.891
56	1662.0 11.384 6.9046 0.15795	4.0000 7.00696E-02 6.9046 4.99620E-05	1.30959E-04 757.38 115.15 0.38151	257.29 30.000 2.2344	36.671 1600.0 42.715

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
57 1722.0 24.140 14.642 10.118	7.0000 3.30517E-02 14.642 7.07654E-12	1.00620E-03 100.98 3.1896 7.03292E-09	43.112 30.000 13.516	6.5410 100.00 1.4472
58 1732.0 8.1670 4.9535 1.1420	7.0000 9.76962E-02 4.9535 9.03704E-13	6.25072E-04 329.68 11.155 1.57174E-09	123.39 30.000 11.061	20.366 400.00 4.3375
59 1742.0 1.2993 0.78804 0.10454	7.0000 0.61411 0.78804 0.34195E-07	1.69320E-03 610.75 20.060 4.92650E-04	246.53 30.000 11.010	40.648 600.00 7.5384
60 1752.0 11.209 6.7986 0.64470	7.0000 7.11820E-02 6.7986 1.00991E-05	9.23208E-04 394.20 30.000 1.96046E-02	206.35 30.000 6.8589	32.207 1200.0 10.545
61 1762.0 11.153 6.7649 0.53073	7.0000 7.15371E-02 6.7649 4.06835E-05	2.38035E-04 694.41 39.011 0.17091	107.52 30.000 4.8069	25.059 1600.0 12.746
62 1812.0 399.08 11.226 8.7696	6.0000 1.99933E-03 397.94 1.03267E-11	5.50151E-05 10.465 2.4710 1.07700E-07	8.3324 30.000 3.3721	2.9206 50.000 1.2901
63 1822.0 60.886 18.502 8.2334	6.0000 1.15627E-02 61.051 3.14563E-12	1.26363E-04 46.004 4.6210 2.48937E-08	30.037 30.000 6.5002	6.5851 100.00 2.2472

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
64 1832.0 33.891 20.556 2.9814	6.0000 2.35430E-02 20.556 2.63912E-07	1.01392E-04 90.092 16.161 1.45493E-03	07.033 30.000 5.3855	25.684 400.00 6.8947
65 1842.0 38.103 23.110 1.9669	6.0000 2.09404E-02 23.110 3.51190E-05	4.20640E-05 294.64 30.222 0.03490	229.31 30.000 7.5877	59.424 800.00 11.750
66 1852.0 20.309 12.318 0.76634	6.0000 3.92872E-02 12.318 7.99947E-05	6.05939E-05 408.12 43.586 1.3202	251.53 30.000 5.7710	46.766 1200.0 16.074
67 1862.0 92.364 16.030 0.82157	6.0000 8.63840E-03 07.037 8.06741E-05	1.19955E-05 251.72 56.517 7.3923	168.25 30.000 2.9769	40.610 1600.0 19.511
68 1922.0 80.353 17.031 11.769	7.0000 9.92979E-03 74.015 7.07654E-12	0.73192E-05 72.353 3.1896 0.10422E-08	36.000 30.000 11.207	5.6534 100.00 1.4472
69 1932.0 68.655 18.540 4.2744	7.0000 1.16217E-02 60.780 9.03704E-13	5.66644E-05 192.97 11.155 1.73602E-08	103.94 30.000 9.3175	23.015 400.00 4.3375
70 1942.0 14.003 0.4932 1.1267	7.0000 5.69801E-02 0.4932 0.34195E-07	3.03723E-04 439.68 20.060 2.74656E-03	196.34 30.000 9.4119	39.305 800.00 7.5384

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
71 1952.0 48.410 29.362 2.7844	7.0000 1.64816E-02 29.362 1.00991E-05	2.72024E-05 496.25 30.000 0.66535	267.00 30.000 8.9016	43.547 1200.0 10.545
72 1962.0 185.41 13.015 1.0211	7.0000 4.30541E-03 182.93 4.06635E-05	4.67806E-06 413.01 39.011 8.6967	185.14 30.000 4.7459	37.119 1600.0 12.746
73 2012.0 907.27 9.9902 11.594	7.0000 6.79432E-04 906.70 2.22261E-11	4.35961E-05 5.0520 1.7056 5.09919E-07	6.5296 30.000 3.0203	3.2260 50.000 0.06165
74 2022.0 82.250 16.046 11.640	7.0000 9.69900E-03 76.109 7.07654E-12	1.27750E-04 101.99 3.1896 5.53936E-08	33.540 30.000 10.515	5.0462 100.00 1.4472
75 2032.0 49.117 29.791 6.0603	7.0000 1.67445E-02 29.791 9.03704E-13	7.40429E-05 249.68 11.155 1.32856E-08	117.33 30.000 10.518	24.374 400.00 4.3375
76 2042.0 155.96 13.577 1.8011	7.0000 5.11608E-03 152.99 0.34195E-07	3.00362E-05 83.669 20.060 2.77729E-02	149.54 30.000 7.1684	64.747 800.00 7.5384
77 2052.0 37.345 22.651 2.1400	7.0000 2.13654E-02 22.651 1.00991E-05	4.01275E-05 614.79 30.000 0.45104	202.45 30.000 6.7294	30.195 1200.0 10.545

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
78 2062.0 16.395 9.9439 0.70014	7.0000 4.06673E-02 9.9439 4.06635E-05	0.20946E-05 770.33 39.011 0.49005	222.94 30.000 5.7148	31.753 1600.0 12.746
79 2112.0 226.65 12.454 14.454	7.0000 3.52030E-03 224.63 2.22261E-11	2.02701E-04 17.779 1.7056 1.09650E-07	12.017 30.000 7.0457	3.4048 50.000 0.06165
80 2122.0 125.64 14.417 9.9624	7.0000 6.35065E-03 121.89 7.07654E-12	1.10361E-04 45.145 3.1896 6.41217E-08	14.568 30.000 4.5672	2.3486 100.00 1.4472
81 2132.0 13.174 7.9904 1.0422	7.0000 6.05657E-02 7.9904 9.03704E-13	2.23100E-04 300.02 11.155 4.40751E-09	09.047 30.000 7.9920	13.021 400.00 4.3375
82 2142.0 9.9334 6.0249 0.79923	7.0000 0.03232E-02 6.0249 0.34195E-07	3.00647E-04 763.03 20.060 2.70275E-03	247.95 30.000 11.686	37.784 800.00 7.5384
83 2152.0 25.901 15.710 1.4098	7.0000 3.00050E-02 15.710 1.00991E-05	3.63634E-05 724.74 30.000 0.49773	210.71 30.000 7.2698	29.918 1200.0 10.545
84 2162.0 15.934 9.6646 0.75823	7.0000 5.00736E-02 9.6646 4.06635E-05	6.50564E-05 930.96 39.011 0.61776	302.60 30.000 7.7589	42.065 1600.0 12.746

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
85 2222.0 51.337 25.027 7.1723	5.0000 1.55422E-02 36.854 1.39028E-12	2.40242E-04 67.564 6.6947 5.82028E-09	25.324 30.000 3.7026	4.1020 100.00 3.4934
86 2232.0 29.857 18.109 1.6524	5.0000 2.67231E-02 18.109 3.00710E-05	6.24653E-05 243.56 23.413 0.40140	94.259 30.000 4.0260	16.139 400.00 10.960
87 2242.0 23.721 14.387 0.70558	5.0000 3.36363E-02 14.387 1.04036E-04	5.99530E-05 721.35 43.704 1.7353	201.30 30.000 6.4266	49.585 800.00 10.315
88 2252.0 19.327 11.728 0.47868	5.0000 4.12631E-02 11.728 9.72637E-05	1.77437E-04 556.43 63.145 0.54016	230.17 30.000 3.6451	34.340 1200.0 24.501
89 2262.0 24.212 14.685 0.49171	5.0000 3.29538E-02 14.685 7.05964E-05	4.75717E-05 809.13 81.879 1.6522	202.90 30.000 3.4552	42.200 1600.0 29.866
90 2312.0 106.77 15.191 7.9083	5.0000 7.47324E-03 102.27 4.79003E-12	2.35670E-04 12.403 3.5799 2.03591E-08	10.140 30.000 2.8324	2.7305 50.000 1.9017
91 2322.0 56.559 21.645 6.2029	5.0000 1.41070E-02 45.510 1.39028E-12	2.62269E-04 30.601 6.6947 5.33147E-09	19.671 30.000 2.9382	3.5606 100.00 3.4094

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
99 2452.0 116.60 14.746 0.91740	6.0000 6.83142E-03 112.73 7.99947E-05	8.95613E-06 734.24 43.506 0.9518	257.05 30.000 5.0976	36.603 1200.0 16.074
100 2462.0 55.576 22.079 1.1316	6.0000 1.43567E-02 44.008 0.86741E-05	2.20300E-05 699.51 56.517 4.0237	351.40 30.000 6.2189	54.602 1600.0 19.511
101 313.00 469.98 0.8725 6.9312	6.0000 1.69769E-03 469.32 1.03267E-11	5.70203E-05 10.835 2.4710 1.81107E-07	8.7991 25.000 3.5609	2.0007 50.000 1.2001
102 323.00 351.20 9.2729 4.1265	6.0000 2.27186E-03 350.31 3.14563E-12	6.00499E-05 10.654 4.6210 4.56003E-08	13.353 25.000 2.0097	6.0427 100.00 2.2472
103 333.00 723.73 8.3709 1.2141	6.0000 1.10246E-03 723.30 4.50638E-06	1.04536E-05 20.142 16.161 0.24420	39.765 25.000 2.4606	34.286 400.00 6.0947
104 413.00 36.556 22.172 11.659	5.0000 2.18265E-02 22.172 4.79003E-12	6.05604E-04 14.330 3.5799 7.92168E-09	10.683 25.000 2.9841	2.0433 50.000 1.9017
105 423.00 34.280 20.792 5.9586	5.0000 2.32754E-02 20.792 1.39028E-12	5.55992E-04 15.864 6.6947 2.51493E-09	16.625 25.000 2.4033	6.2509 100.00 3.4094

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
92 2332.0 107.94 12.975 1.1839	5.0000 4.24549E-03 185.50 3.00710E-05	1.97010E-05 169.99 23.413 1.5264	100.01 30.000 4.2716	23.203 400.00 10.960
93 2342.0 69.043 18.340 1.0010	5.0000 1.14239E-02 62.166 1.04036E-04	2.16527E-05 419.59 43.704 4.0047	195.74 30.000 4.4706	39.814 800.00 10.315
94 2352.0 44.412 26.937 1.0994	5.0000 1.79657E-02 26.937 9.72637E-05	4.46964E-05 537.93 63.145 2.1761	240.19 30.000 3.0030	36.713 1200.0 24.501
95 2362.0 125.66 14.416 0.40270	5.0000 6.34958E-03 121.91 7.05964E-05	6.36697E-06 830.48 81.879 12.344	320.60 30.000 3.9156	47.194 1600.0 29.866
96 2422.0 02.757 16.799 7.4756	6.0000 9.64126E-03 76.656 3.14563E-12	1.33507E-04 25.626 4.6210 2.35616E-08	22.277 30.000 4.0209	6.2999 100.00 2.2472
97 2432.0 209.77 11.867 1.7212	6.0000 2.75356E-03 200.20 2.63912E-07	1.47644E-05 111.50 16.161 1.70749E-02	03.604 30.000 5.1733	23.968 400.00 6.0947
98 2442.0 173.66 13.219 1.1250	6.0000 4.59464E-03 171.00 3.51198E-05	9.02047E-06 440.10 30.222 3.5733	234.42 30.000 7.7566	51.745 800.00 11.750

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
106 433.00 46.779 18.100 1.6595	5.0000 1.70566E-02 37.415 9.35911E-05	1.19450E-04 40.121 23.413 0.70346	45.224 25.000 1.9316	19.146 400.00 10.960
107 513.00 20.090 12.190 1.6310	1.0000 3.97001E-02 12.190 1.30109E-05	9.30659E-04 20.290 12.519 1.40399E-02	11.697 25.000 0.93429	2.4107 50.000 7.4737
108 523.00 18.532 11.240 0.70604	1.0000 4.30546E-02 11.240 2.07274E-04	6.73347E-04 26.431 23.412 0.30703	20.222 25.000 0.06374	5.4061 100.00 14.300
109 533.00 121.97 11.505 0.13791	1.0000 6.54101E-03 119.32 4.45512E-05	6.23709E-05 33.430 81.877 0.71430	46.204 25.000 0.56529	20.130 400.00 03.425
110 613.00 10.169 6.1679 2.4072	4.0000 7.04616E-02 6.1679 2.61641E-12	2.25387E-03 50.000 5.0345 1.16005E-09	12.724 25.000 2.5274	1.3700 50.000 2.4798
111 623.00 33.122 20.090 4.4007	4.0000 2.40090E-02 20.090 3.02970E-09	3.75522E-04 05.553 9.4140 1.01903E-05	20.340 25.000 3.0102	4.4792 100.00 4.5568
112 633.00 75.079 13.493 0.07653	4.0000 1.06272E-02 70.504 1.68563E-04	2.01059E-05 200.00 32.926 5.9974	100.39 25.000 3.0409	21.467 400.00 15.394

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
113	643.00 15.837 9.6057 0.36173	4.0000 5.03805E-02 9.6057 1.24973E-04	1.37569E-05 144.14 61.573 9.0844	130.41 25.000 2.1179	47.509 800.00 26.555
114	713.00 49.790 17.418 20.215	7.0000 1.63534E-02 40.215 2.22261E-11	4.94920E-04 58.233 1.7056 4.49904E-08	14.800 25.000 0.6772	1.6639 50.000 0.06165
115	723.00 132.02 11.269 7.7868	7.0000 6.04354E-03 129.59 7.07654E-12	5.59555E-05 107.16 3.1896 1.26467E-07	44.964 25.000 14.097	6.2656 100.00 1.4472
116	733.00 120.33 11.547 2.6621	7.0000 6.63059E-03 117.65 7.91343E-10	1.75922E-05 358.04 11.155 4.49827E-05	162.34 25.000 14.554	28.706 400.00 4.3375
117	743.00 25.659 15.563 2.0645	7.0000 3.10953E-02 15.563 9.01421E-06	1.31975E-04 498.81 20.860 6.83022E-02	273.90 25.000 13.111	47.787 900.00 7.5384
118	813.00 5.9718 3.6221 2.0296	6.0000 0.13361 3.6221 1.03267E-11	4.04205E-03 70.718 2.4710 2.55432E-09	29.451 25.000 11.919	3.6983 50.000 1.2801
119	823.00 3.0502 1.0500 0.02327	6.0000 0.26159 1.0500 3.14563E-12	3.80696E-03 144.26 4.6210 8.26205E-10	41.807 25.000 9.0471	4.9573 100.00 2.2472

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
127	1112.0 113.63 11.731 1.5697	1.0000 7.02169E-03 110.77 1.38109E-05	1.08513E-04 73.851 12.519 0.12727	18.611 25.000 1.4866	2.0972 50.000 7.4737
128	1122.0 27.544 16.706 1.1603	1.0000 2.89677E-02 16.706 2.07274E-04	6.75263E-04 161.37 23.412 0.30695	37.054 25.000 1.6168	4.0996 100.00 14.300
129	1132.0 14.917 9.8476 0.10845	1.0000 5.34885E-02 9.0476 4.45512E-05	3.70747E-04 570.49 81.877 0.12017	156.37 25.000 1.9098	17.915 400.00 03.425
130	1212.0 60.619 14.936 7.0539	5.0000 1.31622E-02 54.581 4.79803E-12	2.40526E-04 77.072 3.5799 1.99481E-08	20.848 25.000 5.0237	2.3998 50.000 1.9017
131	1222.0 43.251 20.276 5.8395	5.0000 1.04476E-02 31.667 1.39828E-12	2.76499E-04 64.023 6.6947 5.05709E-09	29.562 25.000 4.4157	5.0260 100.00 3.4894
132	1232.0 19.113 11.592 1.0577	5.0000 4.17465E-02 11.592 9.35911E-05	1.50590E-04 275.27 23.413 0.62150	118.35 25.000 5.0551	19.023 400.00 10.960
133	1242.0 10.404 6.3104 0.34455	5.0000 7.66901E-02 6.3104 1.56562E-04	9.50074E-05 624.54 43.784 1.6341	269.57 25.000 6.1570	45.189 800.00 18.315

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
120	833.00 9.1396 5.5434 0.00401	6.0000 0.73000E-02 5.5434 4.50638E-06	1.00022E-03 202.08 16.161 4.14106E-03	74.062 25.000 4.6324	13.613 400.00 6.8947
121	843.00 5.6912 3.4458 0.25326	6.0000 0.14044 3.4458 9.44832E-05	4.69516E-04 351.95 30.222 0.20106	245.35 25.000 8.1103	54.423 800.00 11.750
122	923.00 39.228 23.793 16.441	7.0000 2.03398E-02 23.793 7.07654E-12	1.02724E-04 43.721 3.1896 3.07281E-09	26.911 25.000 8.4371	5.4911 100.00 1.4472
123	933.00 141.20 11.081 2.5548	7.0000 5.65002E-03 138.93 7.91343E-10	2.75417E-05 218.23 11.155 2.07326E-05	77.761 25.000 6.9711	13.037 400.00 4.3375
124	943.00 14.675 8.9006 1.1807	7.0000 5.43719E-02 8.9006 9.01421E-06	5.74530E-05 566.31 20.860 0.15690	212.40 25.000 10.102	37.256 800.00 7.5384
125	1023.0 98.641 12.236 0.05572	1.0000 8.00876E-03 95.305 2.07274E-04	0.90936E-05 53.511 23.412 2.3050	26.329 25.000 1.1246	5.1495 100.00 14.300
126	1033.0 246.78 9.8498 0.11807	1.0000 3.23320E-03 245.50 4.45512E-05	2.45730E-05 55.942 245.50 1.0130	54.295 25.000 0.66313	21.550 400.00 93.425

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
134	1312.0 43.952 19.790 2.6479	1.0000 1.01534E-02 32.962 1.38109E-05	1.54559E-04 64.573 12.519 0.93572E-02	23.312 25.000 1.0621	2.0725 50.000 7.4737
135	1322.0 27.131 16.456 1.1508	1.0000 2.94000E-02 16.456 2.07274E-04	1.31256E-04 143.82 23.412 1.5792	39.532 25.000 1.6885	4.0247 100.00 14.300
136	1332.0 18.791 11.397 0.13662	1.0000 4.24600E-02 11.397 4.45512E-05	5.24220E-05 663.25 81.077 0.04906	166.56 25.000 2.0343	19.570 400.00 93.425
137	1413.0 479.20 0.8477 4.6525	5.0000 1.66562E-03 478.55 4.79803E-12	6.63520E-05 5.8526 3.5799 7.23110E-08	6.6570 25.000 1.0596	3.3115 50.000 1.9017
138	1423.0 151.98 10.883 3.1203	5.0000 5.25003E-03 149.08 1.39828E-12	1.10622E-04 23.387 6.6947 1.26402E-09	21.436 25.000 3.2020	6.1036 100.00 3.4894
139	1433.0 65.066 14.399 1.3138	5.0000 1.22740E-02 59.516 9.35911E-05	4.14399E-05 96.174 23.413 2.2585	03.425 25.000 3.5632	26.934 400.00 10.960
140	1443.0 120.61 11.345 0.61944	5.0000 6.20367E-03 126.11 1.56562E-04	1.66444E-05 129.81 43.784 9.4063	119.82 25.000 2.7367	46.076 800.00 18.315

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
141	1453.0 17.977 10.903 0.44501	5.0000 4.43849E-02 10.903 1.22253E-04	1.27996E-04 476.39 63.145 0.95513	236.57 25.000 3.7464	40.743 1200.0 24.501
142	1463.0 9.8124 5.9515 0.19927	5.0000 0.13141E-02 5.9515 9.16798E-05	1.40501E-04 831.20 81.879 0.61703	240.74 25.000 3.0379	34.430 1600.0 29.866
143	1513.0 33.564 20.357 0.2092	4.0000 2.37723E-02 20.357 2.61641E-12	7.47055E-04 25.731 5.0345 3.49055E-09	13.024 25.000 2.5070	2.2170 50.000 2.4790
144	1523.0 42.943 20.600 4.5383	4.0000 1.05800E-02 31.045 3.82970E-09	4.20022E-04 29.602 9.4149 9.10054E-06	21.440 25.000 2.2772	5.3534 100.00 4.5560
145	1533.0 145.00 11.000 0.71511	4.0000 5.49944E-03 142.00 1.68563E-04	6.65120E-05 54.404 32.926 2.5343	00.761 25.000 2.4529	34.439 400.00 15.394
146	1543.0 171.79 10.590 0.39001	4.0000 4.64441E-03 169.95 1.24973E-04	9.66705E-06 166.55 61.573 12.920	148.21 25.000 2.4071	50.716 000.00 26.555
147	1553.0 47.650 17.030 0.49678	4.0000 1.67447E-02 38.655 7.03430E-05	3.51014E-05 424.05 00.002 2.2260	175.73 25.000 1.9790	33.004 1200.0 35.891

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
155	1713.0 42.791 20.844 24.191	7.0000 1.06463E-02 30.724 2.22261E-11	4.14445E-04 50.359 1.7056 5.36206E-00	14.060 25.000 0.2479	1.6719 50.000 0.06165
156	1723.0 116.53 11.649 0.0496	7.0000 6.04729E-03 113.74 7.07654E-12	8.37905E-05 100.63 3.1896 8.44551E-00	34.757 25.000 10.097	4.9770 100.00 1.4472
157	1733.0 316.04 9.9570 2.2956	7.0000 3.42677E-03 231.40 7.91343E-10	7.63995E-06 316.90 11.155 1.03500E-04	133.32 25.000 11.951	22.213 400.00 4.3375
158	1743.0 494.47 0.0001 1.1604	7.0000 1.61360E-03 493.84 9.01421E-06	4.38571E-06 424.81 20.060 2.0554	107.23 25.000 8.9756	34.396 000.00 7.5394
159	1753.0 1127.2 7.9410 0.75304	7.0000 7.07843E-04 1126.9 6.16486E-05	1.92361E-06 406.00 30.005 32.040	169.67 25.000 5.6395	20.641 1200.0 10.545
160	1763.0 2274.9 7.5045 0.57935	7.0000 3.50732E-04 2274.0 9.43469E-05	9.99717E-07 100.62 39.011 94.374	137.36 25.000 3.5212	41.156 1000.0 12.746
161	1813.0 76.205 13.412 10.477	6.0000 1.04702E-02 71.712 1.03267E-11	3.54331E-04 12.946 2.4710 2.91443E-00	9.2202 25.000 3.7346	2.0527 50.000 1.2001

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
148	1563.0 4.1120 2.4940 5.70526E-02	4.0000 0.19404 2.4940 5.36074E-05	1.90000E-04 055.06 115.15 0.26994	202.53 25.000 2.4536	42.593 1600.0 43.715
149	1613.0 55.309 15.700 6.3667	4.0000 1.44260E-02 40.401 2.61641E-12	2.63152E-04 25.911 5.0345 9.94256E-09	17.551 25.000 3.4962	2.3397 50.000 2.4790
150	1623.0 52.140 16.463 3.6129	4.0000 1.53003E-02 44.549 3.82970E-09	1.97405E-04 36.002 9.4140 1.94002E-05	23.410 25.000 2.4974	4.3701 100.00 4.5560
151	1633.0 119.69 11.564 0.75117	4.0000 6.66649E-03 116.90 1.68563E-04	2.63450E-05 131.33 32.926 6.3901	113.09 25.000 3.4340	20.733 400.00 15.394
152	1643.0 544.29 0.6910 0.32720	4.0000 1.46591E-03 543.72 1.24973E-04	5.32446E-06 201.34 61.573 23.471	247.51 25.000 4.0197	66.076 000.00 26.555
153	1653.0 295.60 9.5343 0.26565	4.0000 2.60941E-03 295.62 7.03430E-05	5.19544E-06 459.06 00.002 15.079	190.62 25.000 2.2367	34.049 1200.0 35.891
154	1663.0 50.964 16.765 0.30351	4.0000 1.56550E-02 43.055 5.36074E-05	5.63007E-05 631.45 115.15 0.95223	262.77 25.000 2.2020	43.660 1600.0 43.715

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
162	1023.0 46.220 10.443 0.2072	6.0000 1.72627E-02 36.602 3.14563E-12	3.13156E-04 23.233 4.6210 1.00449E-00	24.030 25.000 5.2020	6.9333 100.00 2.2472
163	1033.0 66.200 14.271 2.0690	6.0000 1.20526E-02 60.840 4.50630E-06	9.14695E-05 74.220 16.161 4.92665E-02	60.207 25.000 4.2256	24.903 400.00 6.0347
164	1043.0 90.514 12.505 1.0711	6.0000 8.81505E-03 86.840 9.44032E-05	3.57264E-05 145.39 30.222 2.6424	116.04 25.000 3.0660	30.971 000.00 11.750
165	1053.0 120.50 11.346 0.70563	6.0000 6.20529E-03 126.00 1.35923E-04	3.05015E-05 399.05 43.506 4.4563	306.01 25.000 7.0209	40.519 1200.0 16.074
166	1063.0 62.903 12.926 0.66247	6.0000 9.50965E-03 79.094 1.27130E-04	3.09415E-05 754.09 56.517 4.1007	401.07 25.000 7.0964	63.470 1600.0 19.511
167	1913.0 59.045 15.161 17.595	7.0000 1.35131E-02 52.779 2.22261E-11	2.34076E-04 24.324 1.7056 9.46293E-00	15.024 25.000 0.0000	3.0671 50.000 0.06165
168	1923.0 75.270 13.479 9.3144	7.0000 1.06003E-02 70.709 7.07654E-12	1.90419E-04 27.001 3.1896 3.71630E-00	21.200 25.000 6.5465	5.3066 100.00 1.4472

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
169	1933.0 171.24 10.599 2.4433	7.0000 4.65936E-03 169.39 7.91343E-10	3.02060E-05 97.118 11.155 2.61992E-05	79.973 25.000 7.1693	26.855 400.00 4.3375
170	1943.0 69.353 13.963 1.8523	7.0000 1.15047E-02 64.305 9.01421E-06	5.45250E-05 315.29 20.860 0.16532	163.46 25.000 7.8359	39.194 800.00 7.5384
171	1953.0 71.993 13.734 1.3024	7.0000 1.10829E-02 67.175 6.16486E-05	8.23709E-05 227.96 30.085 0.74843	269.18 25.000 8.9472	54.118 1200.0 10.545
172	1963.0 207.63 10.180 0.79868	7.0000 3.04269E-03 206.10 9.43469E-05	5.06904E-06 812.31 39.011 18.612	275.37 25.000 7.0589	39.591 1600.0 12.746
173	2013.0 166.01 10.671 12.384	7.0000 4.08627E-03 164.09 2.22261E-11	1.00699E-04 28.334 1.7056 2.20718E-07	10.147 25.000 10.640	3.5111 50.000 0.86165
174	2023.0 119.63 11.565 7.9916	7.0000 6.66980E-03 116.93 7.07654E-12	1.34460E-04 49.943 3.1096 5.26293E-08	41.788 25.000 13.101	7.6932 100.00 1.4472
175	2033.0 96.777 12.311 2.8393	7.0000 8.24453E-03 93.369 7.91343E-10	4.78114E-05 92.312 11.155 1.65513E-05	132.05 25.000 11.038	30.103 400.00 4.3375

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
176	2043.0 265.94 9.7174 1.2891	7.0000 3.00829E-03 264.75 9.01421E-06	1.75272E-05 59.739 20.860 0.51430	86.619 25.000 4.1523	53.472 800.00 7.5384
177	2053.0 200.47 10.252 0.97221	7.0000 3.98089E-03 190.89 6.16486E-05	1.89279E-05 92.502 30.085 3.2570	80.927 25.000 2.6899	26.172 1200.0 10.545
178	2063.0 46.788 18.184 1.4266	7.0000 1.70531E-02 37.429 9.43469E-05	5.53531E-05 1019.3 39.011 1.7045	316.29 25.000 0.1077	43.382 1600.0 12.746
179	2113.0 62.894 14.643 16.994	7.0000 1.26862E-02 57.155 2.22261E-11	2.10633E-04 25.407 1.7056 1.05521E-07	14.473 25.000 0.4857	2.9174 50.000 0.86165
180	2123.0 79.010 13.221 9.1360	7.0000 1.00985E-02 74.708 7.07654E-12	1.66611E-04 24.154 3.1896 4.24735E-08	18.738 25.000 5.8745	4.7013 100.00 1.4472
181	2133.0 137.32 11.158 2.5724	7.0000 5.81053E-03 134.98 7.91343E-10	5.38121E-05 77.451 11.155 1.49276E-05	52.756 25.000 4.7294	12.969 400.00 4.3375
182	2143.0 342.05 9.3122 1.2353	7.0000 2.33262E-03 341.14 9.01421E-06	1.28696E-05 81.757 20.860 0.70043	122.66 25.000 5.8802	57.825 800.00 7.5384

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
183	2153.0 173.15 10.572 1.0025	7.0000 4.60814E-03 171.31 6.16486E-05	8.85381E-06 446.27 30.085 6.9630	202.01 25.000 6.7411	36.987 1200.0 10.545
184	2163.0 203.93 9.6064 0.75366	7.0000 2.61017E-03 202.82 9.43469E-05	6.07686E-06 174.63 39.011 15.526	147.49 25.000 3.7888	49.853 1600.0 12.746
185	2213.0 74.986 13.500 7.0991	5.0000 1.06485E-02 70.404 4.79803E-12	3.22933E-04 14.248 3.5799 1.48577E-08	12.223 25.000 3.4142	3.0095 50.000 1.9017
186	2223.0 89.341 12.641 3.6220	5.0000 8.93877E-03 85.612 1.39820E-12	2.35663E-04 29.692 6.6947 5.93339E-09	39.803 25.000 5.9454	7.7220 100.00 3.4894
187	2233.0 225.69 10.016 0.91390	5.0000 3.53527E-03 224.30 9.35911E-05	2.54995E-05 49.099 23.413 3.6703	46.529 25.000 1.9874	19.763 400.00 10.960
188	2243.0 320.20 7.1553 0.39069	5.0000 2.49182E-04 3201.9 1.56562E-04	2.04480E-06 30.264 43.704 76.566	83.024 25.000 1.8962	77.312 800.00 18.315
189	2253.0 1004.8 8.0455 0.32637	5.0000 7.94071E-04 1004.5 1.22253E-04	1.15345E-06 85.725 63.145 105.99	97.023 25.000 1.5365	43.521 1200.0 24.501

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
190	2263.0 1071.6 7.9865 0.26741	5.0000 7.44589E-04 1071.3 9.16798E-05	2.36316E-06 152.45 81.079 38.795	102.02 25.000 1.2460	33.004 1600.0 29.866
191	2313.0 43.965 19.780 10.401	5.0000 1.81481E-02 32.905 4.79803E-12	3.85655E-04 17.491 3.5799 1.24413E-08	10.346 25.000 2.8099	2.4033 50.000 1.9017
192	2323.0 33.172 20.120 5.7659	5.0000 2.40531E-02 20.120 1.39820E-12	5.22456E-04 23.619 6.6947 2.67636E-09	24.487 25.000 3.6577	6.3233 100.00 3.4894
193	2333.0 263.06 9.7363 0.86837	5.0000 3.03310E-03 261.06 9.35911E-05	1.91884E-05 57.678 23.413 4.8775	58.377 25.000 2.4934	23.420 400.00 10.960
194	2413.0 92.279 88.684 9.7680	6.0000 8.64642E-03 12.584 1.83267E-11	2.73841E-04 13.088 2.4718 3.77108E-08	8.1030 25.000 3.2792	2.0693 50.000 1.2801
195	2423.0 86.497 12.785 5.6894	6.0000 9.22445E-03 82.627 3.14563E-12	1.24697E-04 27.074 4.6210 2.52261E-08	20.474 25.000 4.4306	5.6612 100.00 2.2472
196	2433.0 872.62 8.1805 1.1865	6.0000 9.14353E-04 872.26 4.50638E-06	6.67954E-06 70.372 16.161 0.67465	73.734 25.000 4.5626	29.820 400.00 6.8947

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
197 322.00 181.28 10.468 4.6584	6.0000 4.40143E-03 179.53 2.56411E-02	9.91891E-05 19.950 4.6210 258.51	20.132 1.0000 4.3566	5.7927 100.00 2.2472
198 332.00 165.05 10.684 1.5497	6.0000 4.83430E-03 163.12 2.79792E-03	1.89823E-05 219.54 16.161 147.40	117.92 1.0000 7.2970	24.976 400.00 6.8347
199 422.00 21.065 13.262 3.8006	5.0000 3.64915E-02 13.262 1.25939E-02	7.94435E-04 23.800 6.6947 15.853	27.131 1.0000 4.0527	7.0477 100.00 3.4094
200 432.00 13.575 8.2334 0.75125	5.0000 5.87776E-02 8.2334 1.23027E-03	5.98383E-04 194.15 23.413 2.0560	66.603 1.0000 2.8447	11.402 400.00 10.960
201 442.00 27.802 16.063 0.92072	5.0000 2.06991E-02 16.063 3.95777E-04	6.73161E-05 275.20 43.784 5.8794	169.16 1.0000 3.8407	45.501 800.00 18.315
202 522.00 6.6893 4.0573 0.28373	1.0000 0.11928 4.0573 9.46152E-04	1.07407E-03 45.002 23.412 0.80091	26.336 1.0000 1.1249	5.6799 100.00 14.300
203 532.00 16.014 10.198 0.12224	1.0000 4.74546E-02 10.198 4.65936E-05	1.18109E-04 197.00 81.877 0.39450	104.47 1.0000 1.2760	22.530 400.00 83.425

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
204 622.00 12.610 7.6484 1.6785	4.0000 6.32732E-02 7.6484 7.07898E-03	4.81804E-04 79.297 9.4148 14.692	26.804 1.0000 2.8470	3.8147 100.00 4.5560
205 632.00 24.300 14.787 0.96059	4.0000 3.27267E-02 14.787 6.25365E-04	6.20524E-05 306.96 32.926 10.078	124.72 1.0000 3.7870	20.599 400.00 15.394
206 642.00 17.910 10.863 0.40908	4.0000 4.45498E-02 10.863 1.94401E-04	4.62446E-05 465.16 61.573 4.2030	214.99 1.0000 3.4916	42.072 800.00 26.555
207 722.00 37.348 22.653 15.653	7.0000 2.13636E-02 22.653 4.77498E-02	2.35001E-04 95.587 3.1896 203.11	46.973 1.0000 14.727	6.6067 100.00 1.4472
208 732.00 1026.3 8.0259 1.8504	7.0000 7.77401E-04 1026.0 6.24712E-03	3.43006E-06 91.017 11.155 1816.6	90.306 1.0000 8.0957	29.794 400.00 4.3375
209 742.00 72.679 13.678 1.8145	7.0000 1.09782E-02 67.918 1.98918E-03	3.39346E-05 484.60 20.860 58.610	298.70 1.0000 14.319	55.536 800.00 7.5384
210 822.00 7.6538 4.6418 2.0656	6.0000 0.10426 4.6418 2.56411E-02	4.03174E-03 142.42 4.6210 6.3598	43.075 1.0000 9.3216	5.1639 100.00 2.2472

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
211 832.00 70.590 13.853 2.6092	6.0000 1.13032E-02 65.652 2.79792E-03	3.99366E-05 224.85 16.161 70.059	86.978 1.0000 5.3821	16.255 400.00 6.8947
212 842.00 67.286 14.160 1.2051	6.0000 1.18581E-02 62.838 8.89944E-04	2.88543E-05 375.39 30.222 42.674	231.96 1.0000 7.6754	53.033 800.00 11.750
213 922.00 18.862 6.5881 4.5524	7.0000 7.34573E-02 6.5881 4.77480E-02	6.81366E-04 75.179 3.1896 70.077	29.179 1.0000 8.8346	4.8798 100.00 1.4472
214 932.00 12.232 7.4191 1.7105	7.0000 6.52294E-02 7.4191 6.24712E-03	9.65521E-05 375.53 11.155 64.702	134.04 1.0000 12.017	19.183 400.00 4.3375
215 942.00 10.275 6.2319 0.82670	7.0000 7.76550E-02 6.2319 1.98518E-03	8.83199E-05 794.31 20.860 24.766	290.97 1.0000 13.949	43.635 800.00 7.5384
216 1022.0 88.526 12.682 0.88684	1.0000 9.01302E-03 64.757 9.46152E-04	8.39313E-05 82.070 23.412 11.273	42.363 1.0000 1.8094	6.3762 100.00 14.300
217 1032.0 72.093 13.726 0.16453	1.0000 1.10674E-02 67.284 4.65936E-05	3.99048E-05 387.78 81.877 1.1653	158.91 1.0000 1.9409	23.931 400.00 83.425

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
218 1042.0 68.764 14.018 4.76785E-02	1.0000 1.16032E-02 63.661 7.07078E-06	1.64886E-05 656.65 153.12 0.42883	267.49 1.0000 1.7470	45.900 800.00 294.00
219 1123.0 1217.0 7.8737 0.55062	1.0000 6.55609E-04 1216.8 9.46152E-04	8.67116E-06 125.23 23.412 109.11	32.895 1.0000 1.4050	4.1533 100.00 14.300
220 1223.0 191.15 10.352 2.9660	5.0000 4.17417E-03 189.49 1.25939E-02	5.11260E-05 30.571 6.6947 246.33	26.800 1.0000 4.0032	5.9342 100.00 3.4094
221 1233.0 950.47 8.0980 0.73089	5.0000 8.39461E-04 950.14 1.23027E-03	5.34010E-06 78.965 23.413 230.38	75.523 1.0000 3.2257	27.002 400.00 10.960
222 1243.0 949.85 8.0986 0.44220	5.0000 8.40010E-04 949.52 3.95777E-04	2.82798E-06 121.36 43.704 139.95	123.36 1.0000 2.8175	53.703 800.00 18.315
223 1323.0 608.82 8.5604 0.59864	1.0000 1.31054E-03 608.31 9.46152E-04	7.10908E-06 115.04 23.412 133.09	39.292 1.0000 1.6702	5.4573 100.00 14.300
224 1421.0 74.833 13.512 3.8722	5.0000 1.06622E-02 70.240 1.25939E-02	3.64525E-04 19.270 6.6947 34.549	24.677 1.0000 3.6860	6.8585 100.00 3.4094

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
225	1431.0 56.653 15.545 1.4184	5.0000 1.40836E-02 49.994 1.23027E-03	9.15206E-03 331.02 23.413 13.443	120.40 1.0000 5.1425	21.434 400.00 10.960
226	1441.0 134.95 11.206 0.61187	5.0000 5.91248E-03 132.57 3.95777E-04	2.90966E-05 226.30 43.784 13.602	210.59 1.0000 4.6099	62.633 800.00 18.315
227	1451.0 50.000 12.605 0.51447	5.0000 8.85574E-03 86.404 2.05399E-04	3.28585E-05 694.46 63.145 6.2510	274.19 1.0000 4.3420	40.550 1200.0 24.501
228	1461.0 115.82 11.669 0.39070	5.0000 6.88920E-03 113.02 1.30020E-04	1.71097E-05 477.72 81.879 7.5992	276.06 1.0000 3.3813	57.113 1600.0 29.066
229	1521.0 16.141 9.7901 2.1485	4.0000 4.94317E-02 9.7901 7.0790E-03	6.32936E-04 39.611 9.4143 11.167	21.505 1.0000 2.2842	4.4715 100.00 4.5568
230	1531.0 59.759 15.056 0.97806	4.0000 1.33518E-02 53.599 6.25365E-04	6.72054E-05 122.63 32.926 9.2790	93.315 1.0000 2.8341	24.924 400.00 15.394
231	1541.0 149.51 10.930 0.41160	4.0000 5.33653E-03 147.38 1.94401E-04	2.58200E-05 202.38 61.573 7.5239	186.85 1.0000 3.0346	61.026 800.00 26.555

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
239	1721.0 10.815 6.5596 4.5327	7.0000 7.37764E-02 6.5596 4.77480E-02	1.32244E-03 77.054 3.1896 35.105	25.070 1.0000 8.1107	3.6411 100.00 1.4472
240	1731.0 49.090 17.319 3.9929	7.0000 1.62536E-02 48.617 6.24712E-03	7.34524E-05 317.17 11.155 85.050	125.25 1.0000 11.228	20.526 400.00 4.3375
241	1741.0 5.9190 3.5901 0.47624	7.0000 8.13430 3.5901 1.98918E-03	7.01209E-04 496.26 20.060 2.8368	278.93 1.0000 13.371	49.000 800.00 7.5384
242	1751.0 112.23 11.772 1.1164	7.0000 7.10908E-03 105.34 9.54384E-04	1.36416E-05 661.67 30.085 72.094	159.02 1.0000 5.2855	19.987 1200.0 10.545
243	1761.0 120.16 10.064 0.76956	7.0000 3.62404E-03 218.73 6.36233E-04	3.20257E-06 913.35 39.011 198.66	350.13 1.0000 8.9752	51.462 1600.0 12.746
244	1821.0 6.8367 4.1467 1.6453	6.0000 0.11671 4.1467 2.56411E-02	1.39425E-03 35.749 4.6210 18.391	24.430 1.0000 5.2868	5.5395 100.00 2.2472
245	1831.0 17.742 10.761 1.5607	6.0000 4.49723E-02 10.761 2.79792E-03	2.17415E-04 96.155 16.161 12.069	108.09 1.0000 6.7370	28.279 400.00 6.8947

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
232	1551.0 144.11 11.026 0.30722	4.0000 5.53653E-03 141.89 9.97948E-05	1.05567E-05 306.30 88.802 9.4533	169.50 1.0000 1.9007	34.669 1200.0 35.091
233	1561.0 189.28 10.385 0.23756	4.0000 4.23768E-03 186.60 6.32036E-05	6.98077E-06 350.25 115.15 9.0540	221.99 1.0000 1.9278	48.568 1600.0 43.715
234	1621.0 9.6038 5.8250 1.2783	4.0000 8.30798E-02 5.8250 7.07890E-03	7.45035E-04 50.395 9.4143 9.4912	31.497 1.0000 3.3454	5.2659 100.00 4.5568
235	1631.0 51.071 16.736 1.0872	4.0000 1.56229E-02 43.191 6.25365E-04	5.89120E-05 149.74 32.926 10.615	111.07 1.0000 3.3733	26.804 400.00 15.394
236	1641.0 171.14 11.268 0.42508	4.0000 6.08408E-03 128.69 1.94491E-04	1.25031E-05 275.55 61.573 15.449	170.74 1.0000 2.7729	41.169 600.00 26.555
237	1651.0 112.67 11.754 0.32749	4.0000 7.06920E-03 109.99 9.97948E-05	9.21914E-06 477.41 88.802 10.825	245.68 1.0000 2.7779	40.431 1200.0 35.091
238	1661.0 47.069 18.064 0.41322	4.0000 1.69514E-02 37.033 6.32036E-05	3.45301E-05 775.50 115.15 1.8304	355.23 1.0000 3.0950	53.092 1600.0 43.715

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
246	1841.0 34.651 21.017 1.7887	6.0000 2.30263E-02 21.017 8.09944E-04	8.77992E-05 202.06 30.222 10.136	212.40 1.0000 7.0279	54.900 800.00 11.750
247	1851.0 33.147 20.105 1.2508	6.0000 2.40713E-02 20.105 4.52503E-04	7.78404E-05 494.78 43.586 5.8143	273.00 1.0000 6.2019	44.069 1200.0 16.074
248	1861.0 37.887 22.979 1.1776	6.0000 2.18598E-02 22.979 2.87905E-04	5.97083E-05 541.71 56.517 4.8219	374.66 1.0000 6.6292	65.977 1600.0 19.511
249	1921.0 11.388 6.9070 4.7728	7.0000 7.00655E-02 6.9070 4.77480E-02	6.83517E-04 48.787 3.1895 69.056	25.583 1.0000 0.0205	4.3169 100.00 1.4472
250	1931.0 51.320 18.997 4.3796	7.0000 2.54753E-02 18.997 6.24712E-03	1.19679E-04 138.67 11.155 52.199	97.642 1.0000 8.7533	23.455 400.00 4.3375
251	1941.0 29.490 17.887 2.3728	7.0000 2.70558E-02 17.887 1.98918E-03	9.71287E-05 167.05 20.060 20.490	160.13 1.0000 7.6764	45.031 800.00 7.5384
252	1951.0 81.262 13.068 1.2403	7.0000 9.81862E-02 77.101 9.54384E-04	5.65990E-05 262.19 30.085 17.569	160.00 1.0000 5.6109	32.679 1200.0 10.545

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
253	1961.0 141.13 11.082 0.86946	7.0000 5.65335E-03 138.87 6.36233E-04	1.47633E-05 278.27 39.011 43.096	194.37 1.0000 4.9825	45.373 1600.0 12.746
254	2021.0 13.675 8.2943 5.7315	7.0000 5.83440E-02 8.2943 4.77480E-02	5.04890E-04 66.864 3.1896 94.571	34.362 1.0000 10.773	5.7037 100.00 1.4472
255	2031.0 41.428 23.320 5.3764	7.0000 1.92597E-02 26.806 6.24712E-03	7.63758E-05 161.56 11.155 81.794	121.74 1.0000 10.913	26.603 400.00 4.3375
256	2041.0 101.03 12.146 1.6112	7.0000 7.89783E-03 97.776 1.90918E-03	3.41620E-05 142.96 20.060 58.227	150.75 1.0000 7.2265	53.191 800.00 7.5384
257	2051.0 120.76 11.556 1.0939	7.0000 6.60725E-03 118.09 9.94304E-04	3.31789E-05 221.06 30.085 29.970	253.87 1.0000 0.4306	49.999 1200.0 10.545
258	2061.0 95.220 12.375 0.97030	7.0000 6.37539E-03 91.749 6.36233E-04	2.41032E-05 370.35 39.011 26.396	274.30 1.0000 7.0315	57.082 1600.0 12.746
259	2121.0 8.4133 5.1629 3.5262	7.0000 9.49367E-02 5.1629 4.77480E-02	1.50831E-03 38.519 3.1095 30.062	13.946 1.0000 4.3724	2.4327 100.00 1.4472

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
267	2251.0 236.78 9.9256 0.40511	5.0000 3.36976E-03 235.45 2.05399E-04	7.09675E-06 338.22 63.145 20.943	175.46 1.0000 2.7787	36.841 1200.0 24.501
268	2261.0 345.34 9.2979 0.31132	5.0000 2.31043E-03 344.43 1.30020E-04	6.70052E-06 259.66 81.879 19.176	212.01 1.0000 2.5993	59.485 1600.0 29.066
269	2321.0 26.967 16.356 4.6874	5.0000 2.95075E-02 16.356 1.25939E-02	3.64643E-04 41.106 6.6947 34.538	20.861 1.0000 3.1161	3.6578 100.00 3.4094
270	2331.0 202.51 10.231 0.93354	5.0000 3.94005E-03 200.95 1.23027E-03	1.59058E-05 94.130 23.413 77.347	77.556 1.0000 3.3126	22.647 400.00 10.960
271	2341.0 440.63 8.9562 0.40902	5.0000 1.81078E-03 439.92 3.95777E-04	3.97676E-06 275.40 43.704 99.522	192.95 1.0000 4.4070	46.314 800.00 10.315
272	2351.0 601.52 8.5742 0.34995	5.0000 1.32644E-03 601.00 2.05399E-04	3.09706E-06 190.52 63.145 66.304	166.27 1.0000 2.6332	42.303 1200.0 24.501
273	2361.0 197.17 10.287 0.34443	5.0000 4.04662E-03 195.57 1.30020E-04	5.45656E-06 710.46 81.879 23.028	215.23 1.0000 2.6287	31.990 1600.0 29.066

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
260	2131.0 18.656 11.315 2.6087	7.0000 4.27666E-02 11.315 6.24712E-03	2.76999E-04 104.20 11.155 22.553	43.489 1.0000 3.8986	7.9707 400.00 4.3375
261	2141.0 17.125 10.387 1.3779	7.0000 4.65914E-02 10.387 1.98918E-03	1.10776E-04 559.38 20.060 17.957	264.15 1.0000 12.663	45.747 800.00 7.5384
262	2151.0 32.723 19.047 1.0821	7.0000 2.43831E-02 19.047 9.94304E-04	6.96295E-05 438.95 30.085 14.281	185.72 1.0000 6.1730	27.526 1200.0 10.545
263	2161.0 28.200 17.104 1.3419	7.0000 2.62942E-02 17.104 6.36233E-04	3.68014E-05 621.36 39.011 17.288	206.04 1.0000 5.2016	32.291 1600.0 12.746
264	2221.0 16.769 10.171 2.9148	5.0000 4.75818E-02 10.171 1.25939E-02	4.55844E-04 51.092 6.6947 27.628	25.283 1.0000 3.7766	4.6253 100.00 3.4894
265	2231.0 64.529 14.452 1.3186	5.0000 1.23648E-02 58.984 1.23027E-03	4.19783E-05 133.72 23.413 29.307	115.30 1.0000 4.9246	28.404 400.00 10.960
266	2241.0 256.12 9.7832 0.53418	5.0000 3.11527E-03 254.89 3.95777E-04	6.96857E-06 104.00 43.784 56.795	193.99 1.0000 4.5440	60.151 800.00 10.315

EOCR DIFFUSION RATIOS

ALL RELEASES:W/D 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/28/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	CHI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DWD(M) SZ PG
274	2421.0 23.074 13.995 6.2279	6.0000 3.45797E-02 13.995 2.56411E-02	2.07253E-04 50.610 4.6210 89.263	25.749 1.0000 5.5722	4.5872 100.00 2.2472
275	2431.0 185.12 10.422 1.5116	6.0000 4.31013E-03 183.41 2.79792E-03	1.72420E-05 89.728 16.161 162.27	98.976 1.0000 6.1245	31.450 400.00 6.8947
276	2441.0 732.24 8.3586 0.71137	6.0000 1.08965E-03 731.81 0.89944E-04	2.07368E-06 163.96 30.222 309.69	138.92 1.0000 4.5967	46.993 800.00 11.750
277	2451.0 825.75 0.2352 0.51233	6.0000 9.66251E-04 825.37 4.52589E-04	2.45227E-06 241.49 43.586 184.56	130.47 1.0000 2.9934	28.916 1200.0 16.074
278	2461.0 530.73 8.7213 0.44699	6.0000 1.50538E-03 530.14 2.87905E-04	2.66803E-06 367.76 56.517 107.91	192.98 1.0000 3.4146	43.378 1600.0 19.511

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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EOCR BUILDING WAKE EFFECTS ON ATMOSPHERIC DIFFUSION

NOVEMBER 1980