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EOCR Building Wake Effects on Atmospheric Diffusion

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EOCR BUILDING WAKE EFFECTS ON ATMOSPHERIC DIFFUSON*

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 $\sigma\theta < 10^o$ 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.

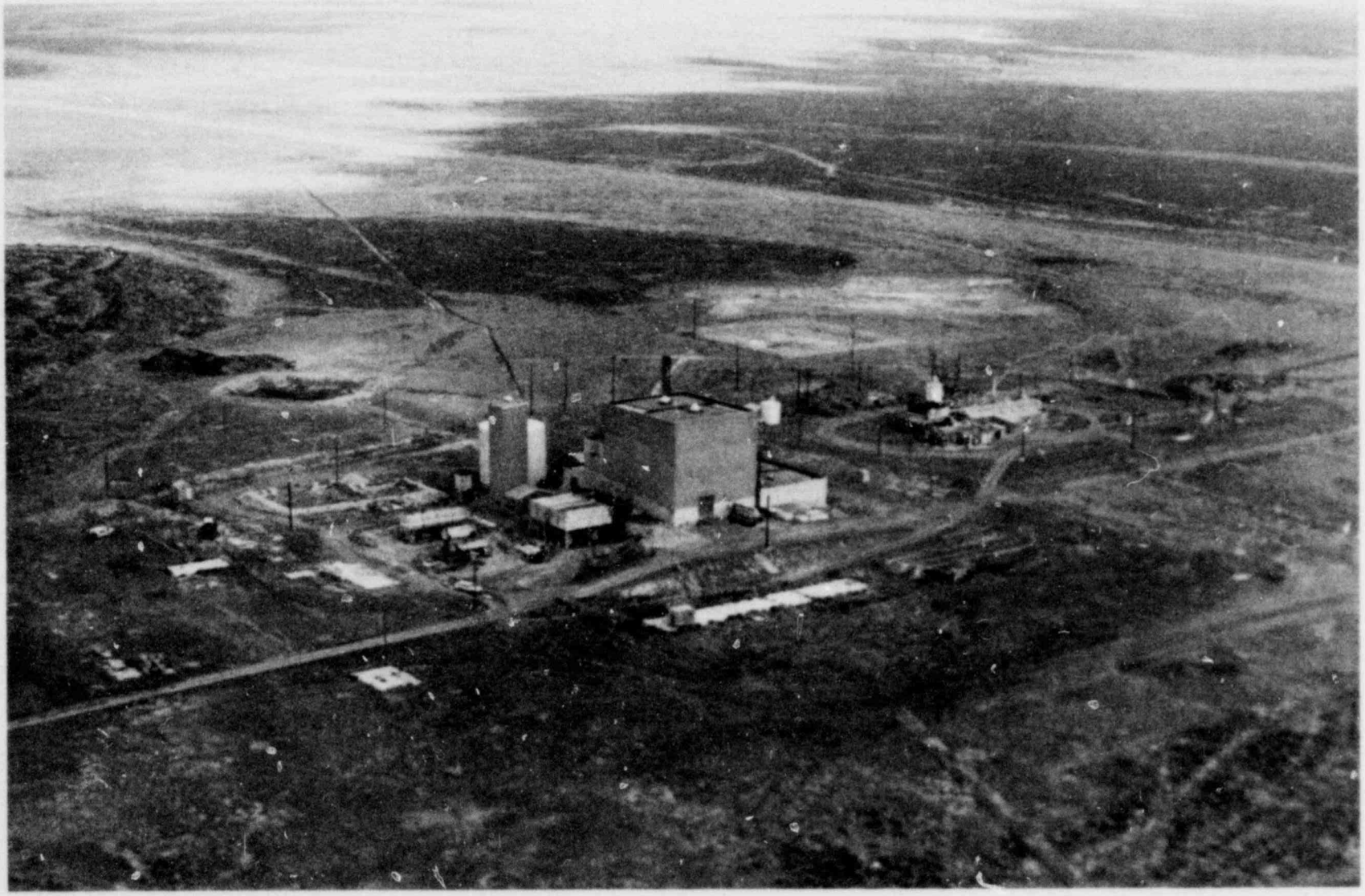

Figure 1. Aerial view of the EOCR reactor building looking east.

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

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

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.

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

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,o), the second moment of the lateral effluent-concentration distribution for a fixed downwind-distance, x, is

$$\sigma_y^2 = \frac{N}{\Sigma}\left\{C(y).(y-y_o)^2\right\} \Big/ N.\frac{N}{\Sigma}\, C(y) \quad (4)$$

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

$$y_o = \sum^{N} \left| C(y).y \right| \Big/ \sum^{N} C(y) \tag{5}$$

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

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

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 (σ_z (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

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

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

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

In subsequent sections, Equation (7) will be evaluated with Pasquill-Gifford values of σ_y and σ_z, an area A equal to 1090 m^2, 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 auxilary wing roof of the EOCR building.

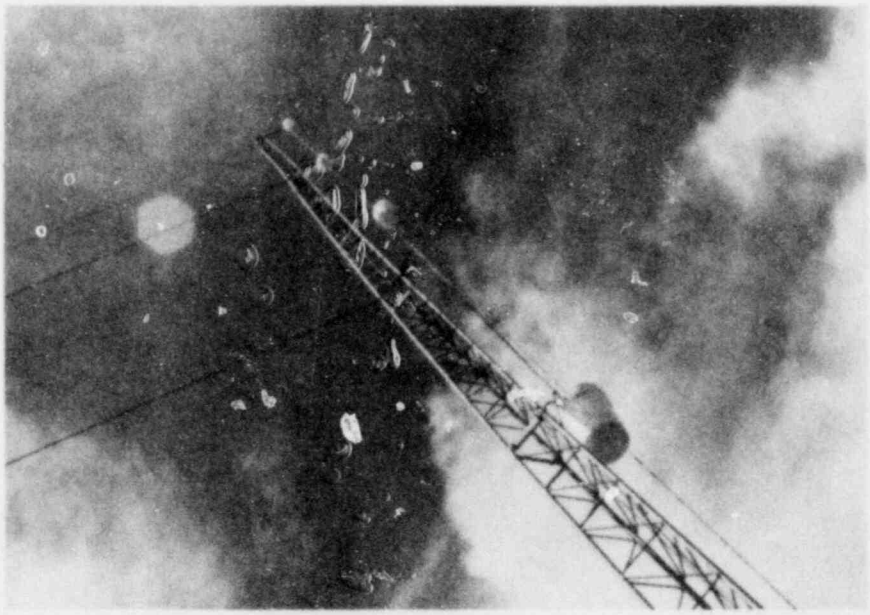

Figure 2. Vertical sampling tower with four suspended samplers at 7.5, 15, 22.5, and 30m above ground.

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 Appendicies 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

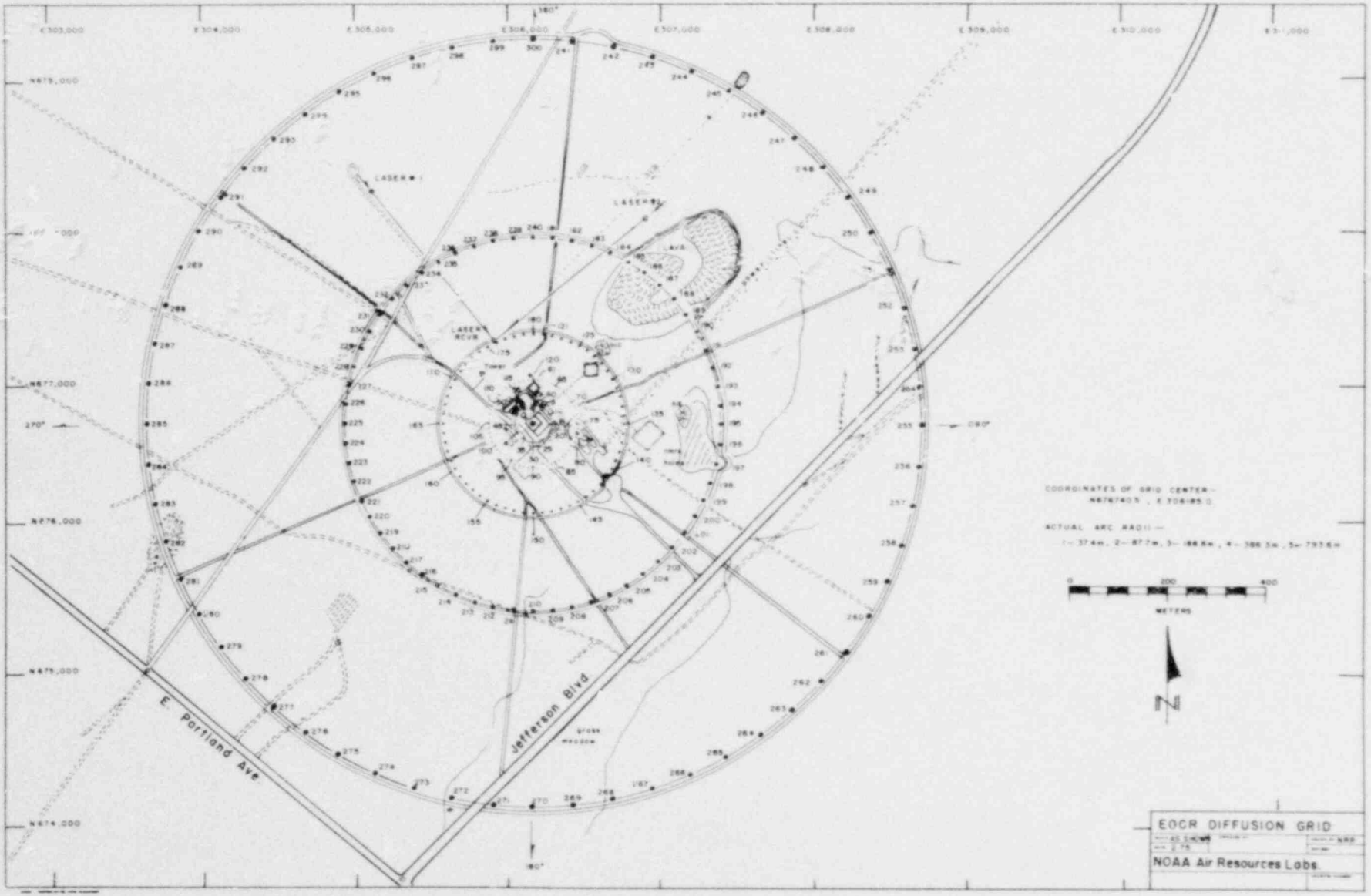

Figure 3. Plot plan of the innermost arcs of the EOCR grid. The outermost grid is at 800 m.

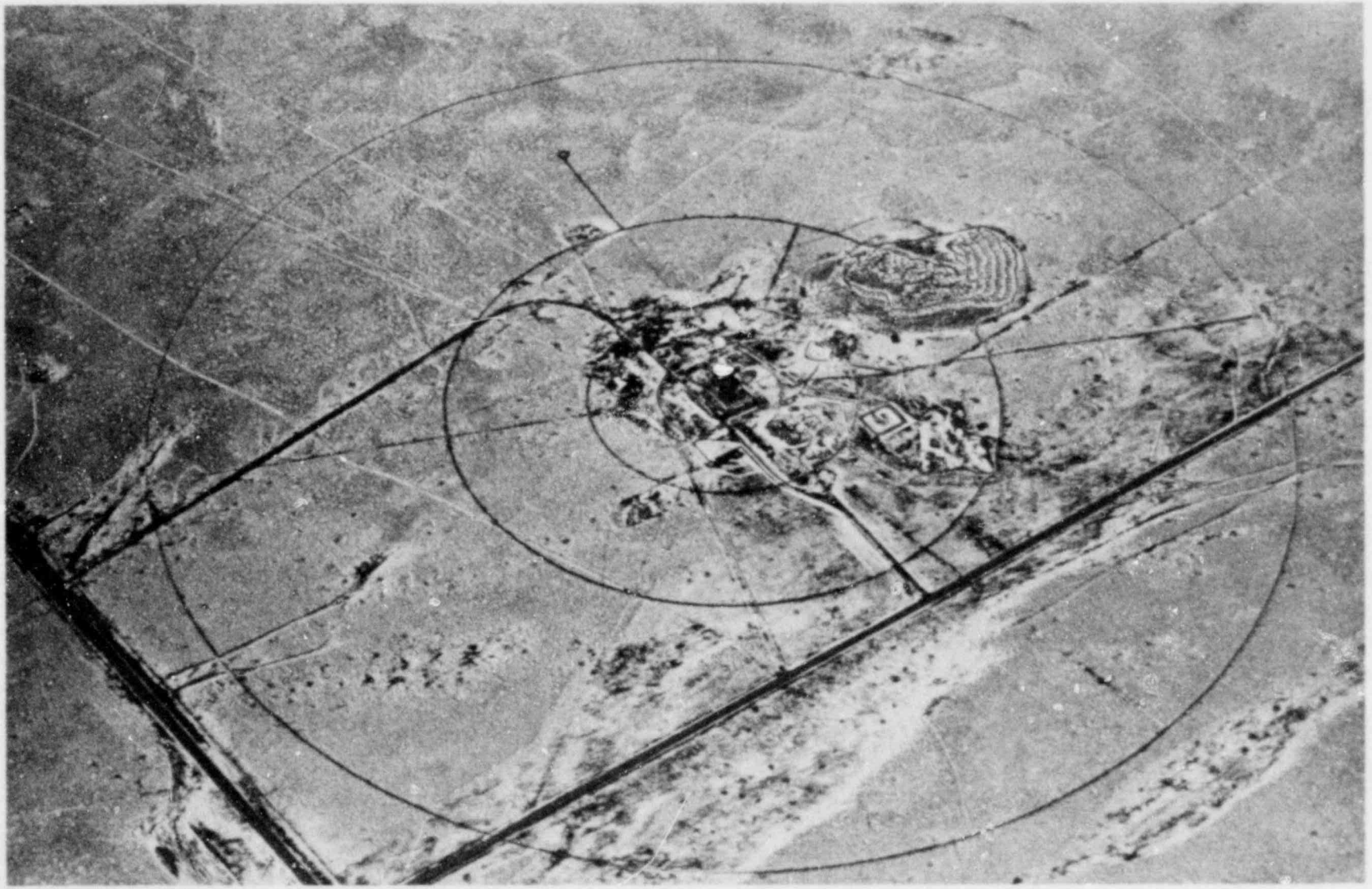

Figure 4. Aerial view of the innermost arcs of the EOCR grid. Photograph may be compared to the plot plan shown in figure 3. The outer circle corresponds to t 300 m arc of fig. 3. North is at the top of the picture.

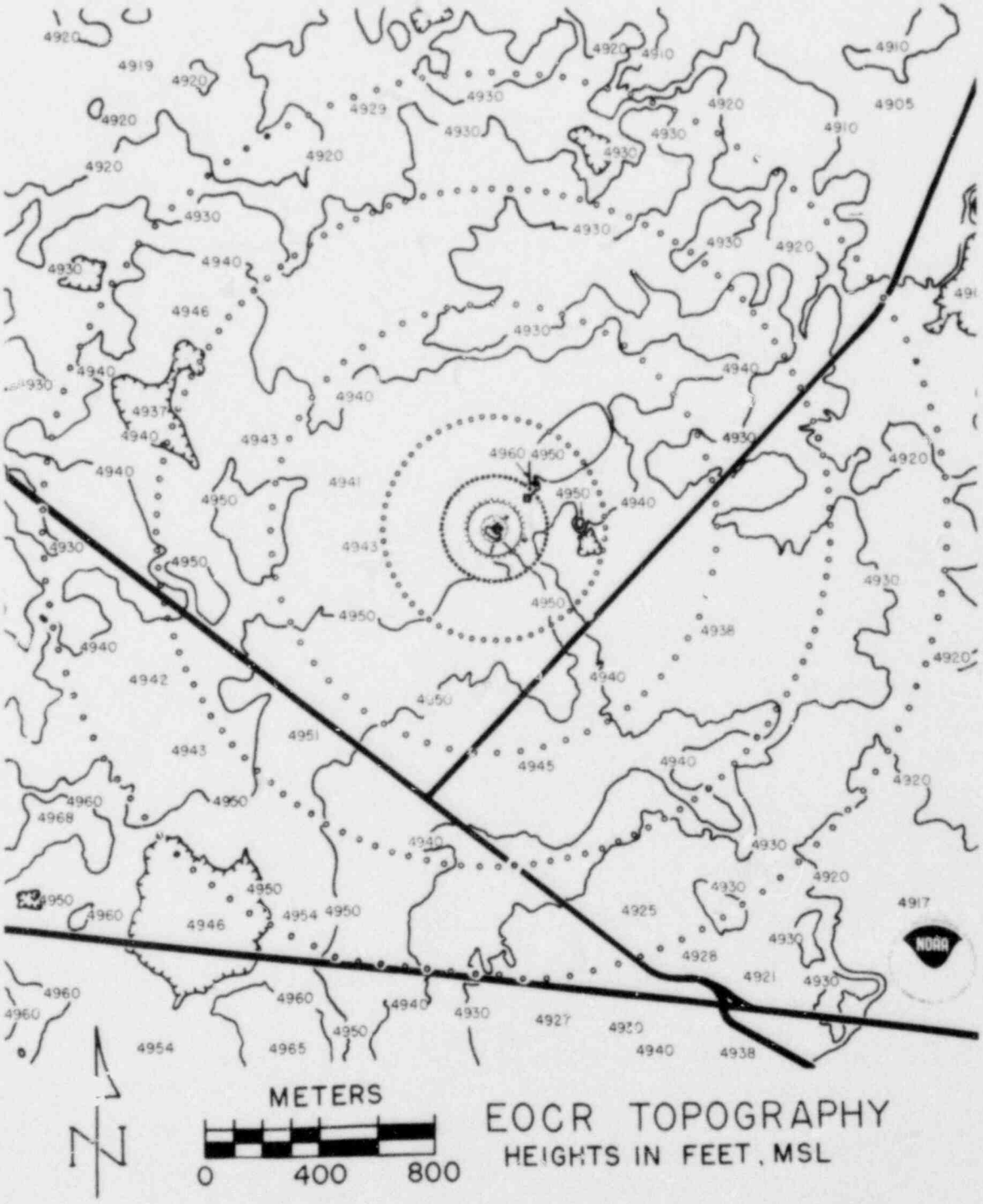

Figure 5. Terrain map of the entire EOCR grid. The outermost arc was at 1600 m. Contour lines were drawn for 10 foot height intervals.

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 (SF6), 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 (Lovelock, et al, 1971). Additional details and photographs of the system were given by Start, et al, (1977).

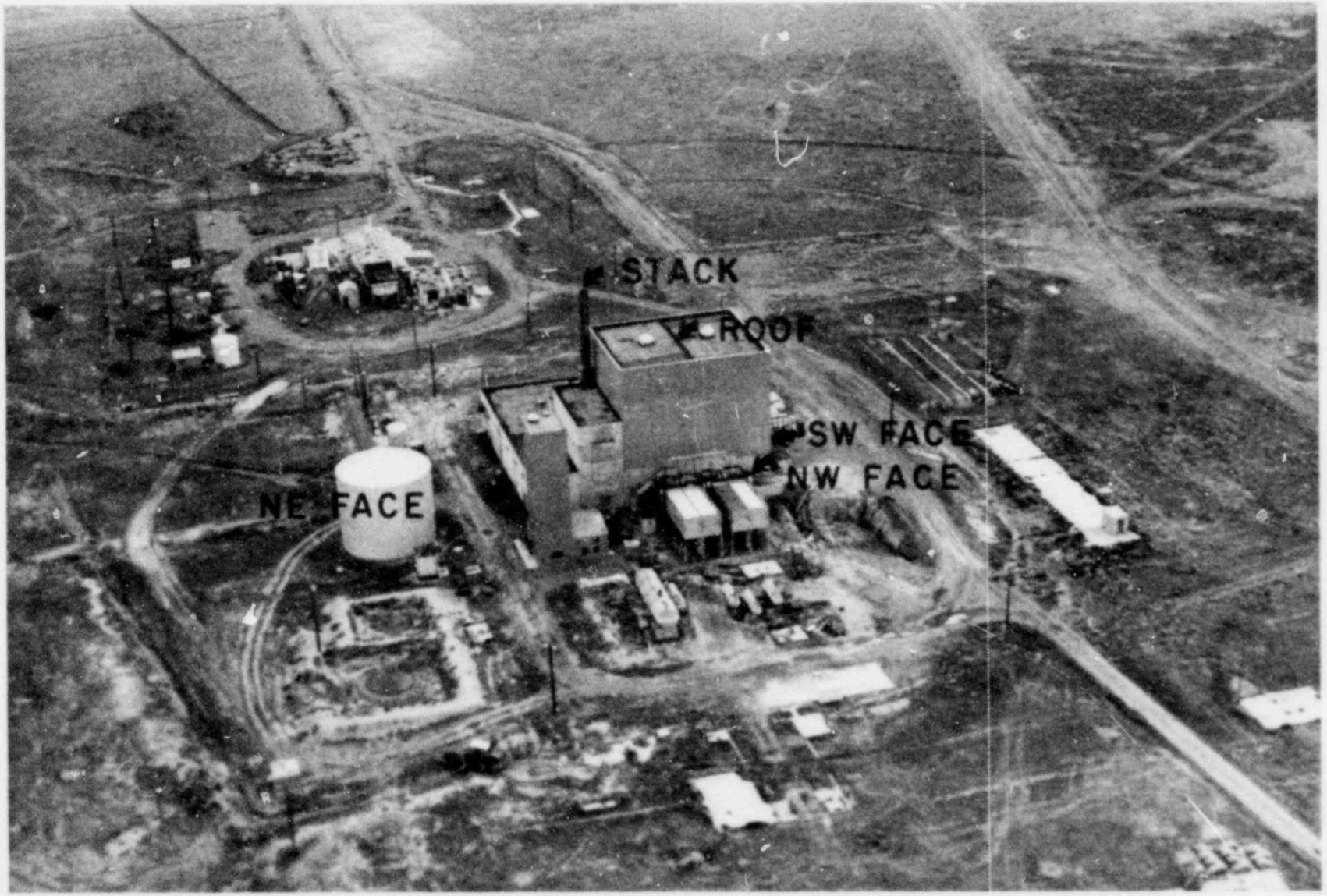

Figure 6. Aerial photograph of the EOCR reactor building showing tracer release sites. The view is toward the southeast.

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

STABILITY	TEST NUMBER	TOTAL
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.

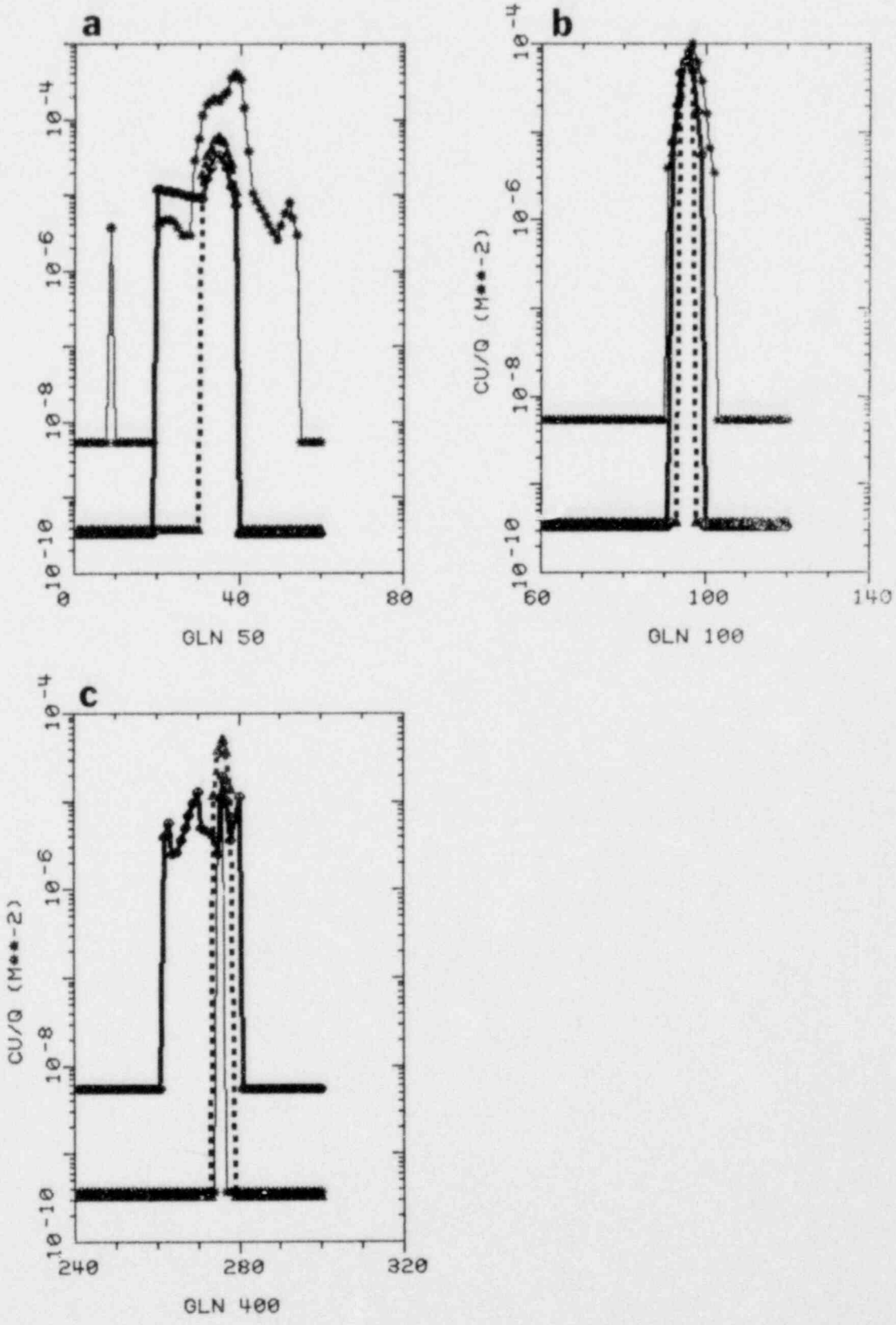

Figure 7. Sampled concentrations by grid location number for test 3 at the 50m, 100m, and 400m arcs. The thin solid line represents ground-level released tracer measurements, the dotted line represents roof-released tracer measurements, and the thick solid line represents stack-released tracer measurements.

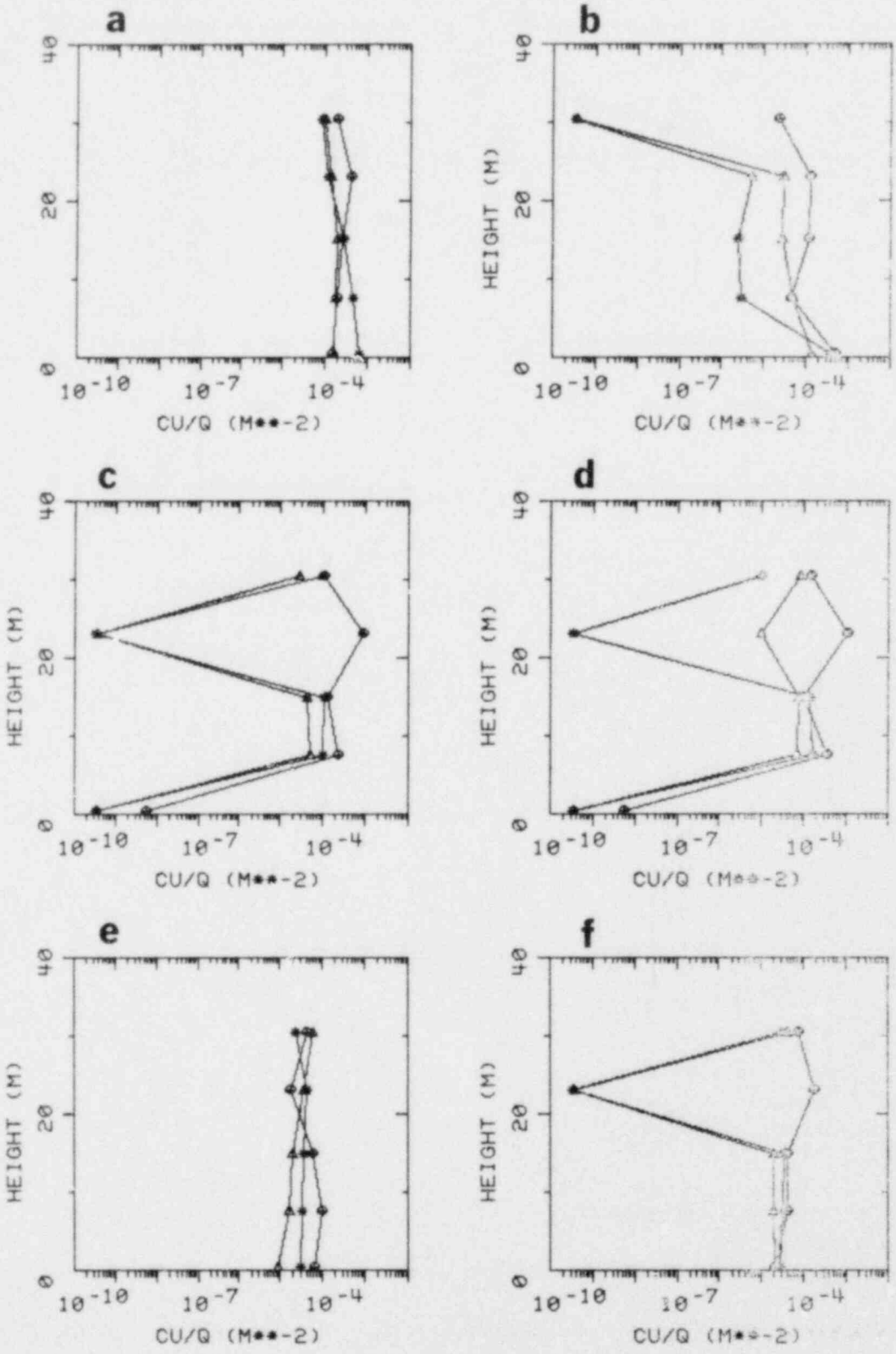

Figure 8. Tower sampled concentrations by height for test 16. Symbols used: * = ground-level released tracer, Δ = roof released tracer, ⊕ = stack released tracer. Figures 8a and b are for 100 m downwind; figures 8c and d are for 200 m and 8e and f are for 400 m downwind.

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 scannings 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.

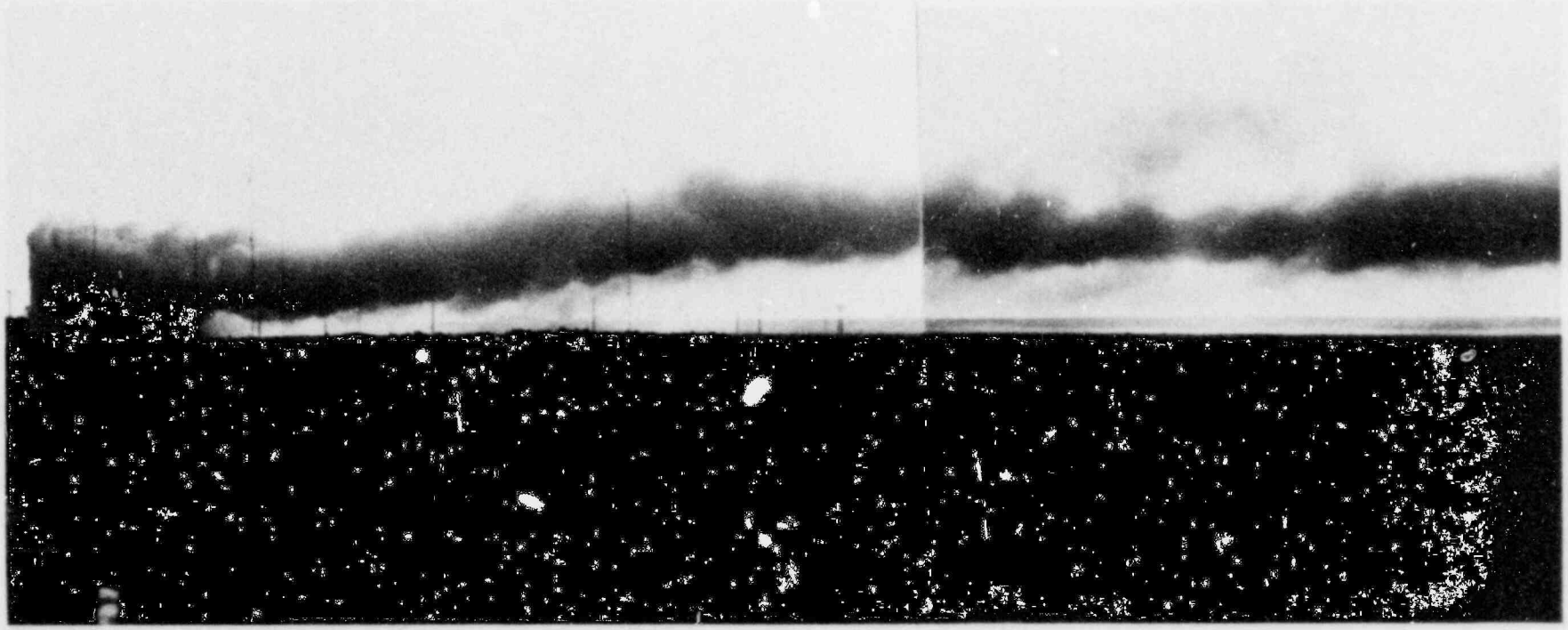

Figure 9. Ground-level smoke tracer release in the lee of the EOCR reactor building. Much of the plume is drawn upward and streams away at roof height. Further downwind a large portion of the plume remained aloft at about roof height. A more diffuse portion of the plume was near the ground beneath the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

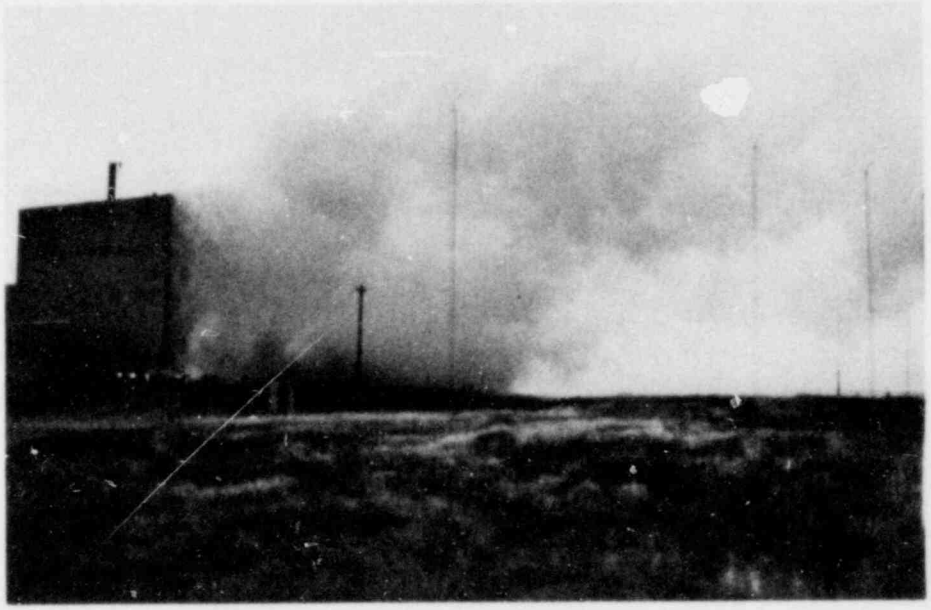

Figure 10. To compliment the smoke depiction of figure 9, a more detailed view is snown of ground-level smoke tracer release near the building. Some of the plume was mixed within the near-building wake; the remainder streamed away at about roof level.

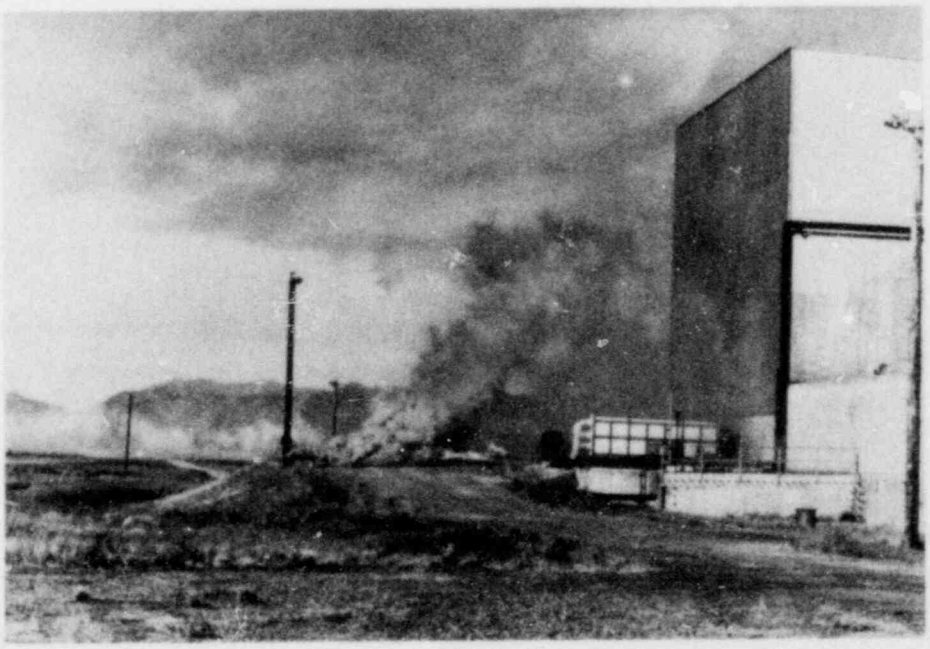

Figure 11. Simultaneous visual tracer releases were made. The first tracer was released in the lee of the building; second tracer was released crosswind far from the building where building disruption had no effect. The tracer which was released near the building was drawn toward the building and lifted. 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.

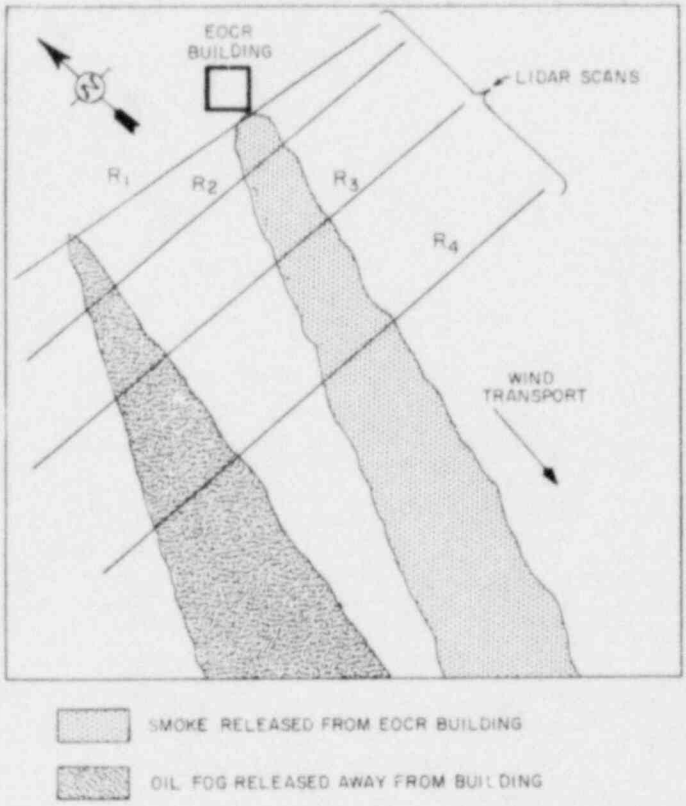

Figure 12. LIDAR observations of simultaneous visual plumes (shown in fig. 11) were performed by SRI, according to a plan shown by this schematic. Lateral/vertical cross-section scans were performed at several different direction rays (R_j) to observe both the smoke and oil fog plumes. The closest LIDAR 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

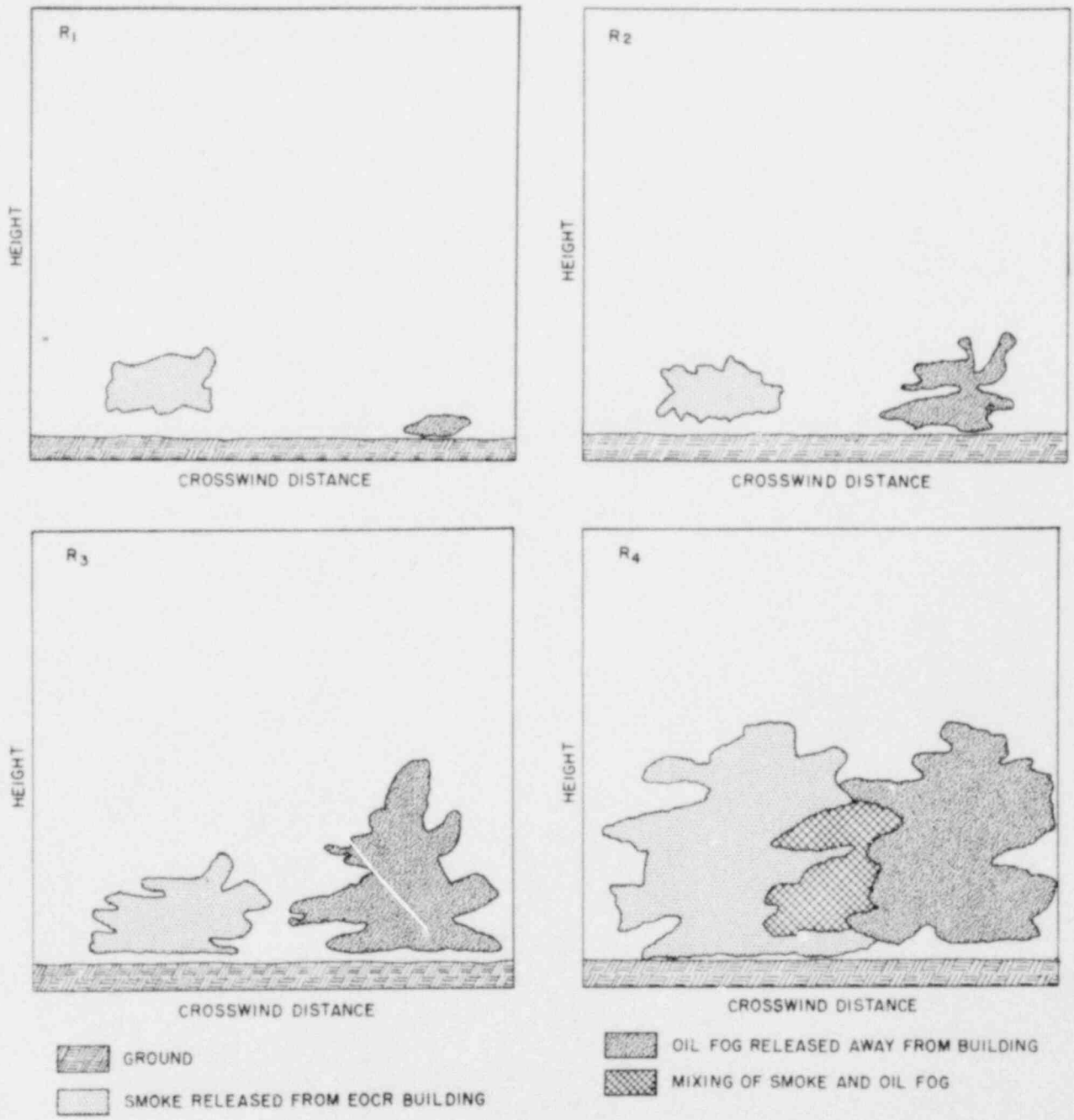

Figure 13. Schematic cross-sections of plumes from preliminary LIDAR observations are presented for increasing downwind distances. The plume on the left was the smoke released at the EOCR building while the plume on the right was oil fog released away from the building.

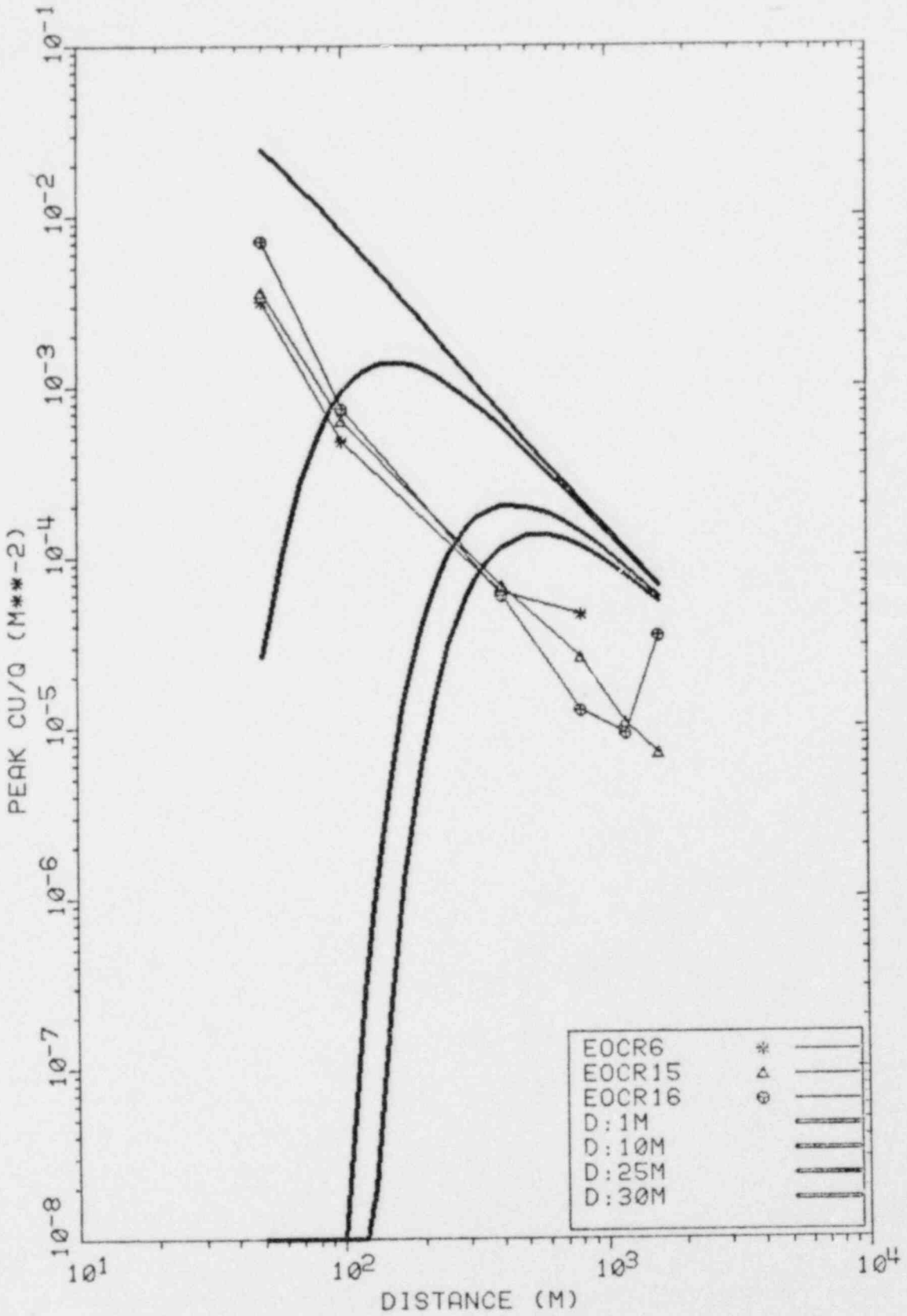

Figure 14. Measured peak normalized concentrations are plotted versus downwind distance for ground-level released tracer and stability category D. Also included are Pasquill-Gifford predictions of peak normalized concentrations for plume centerline heights of 1, 10, 25, and 30m with stability class D.

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

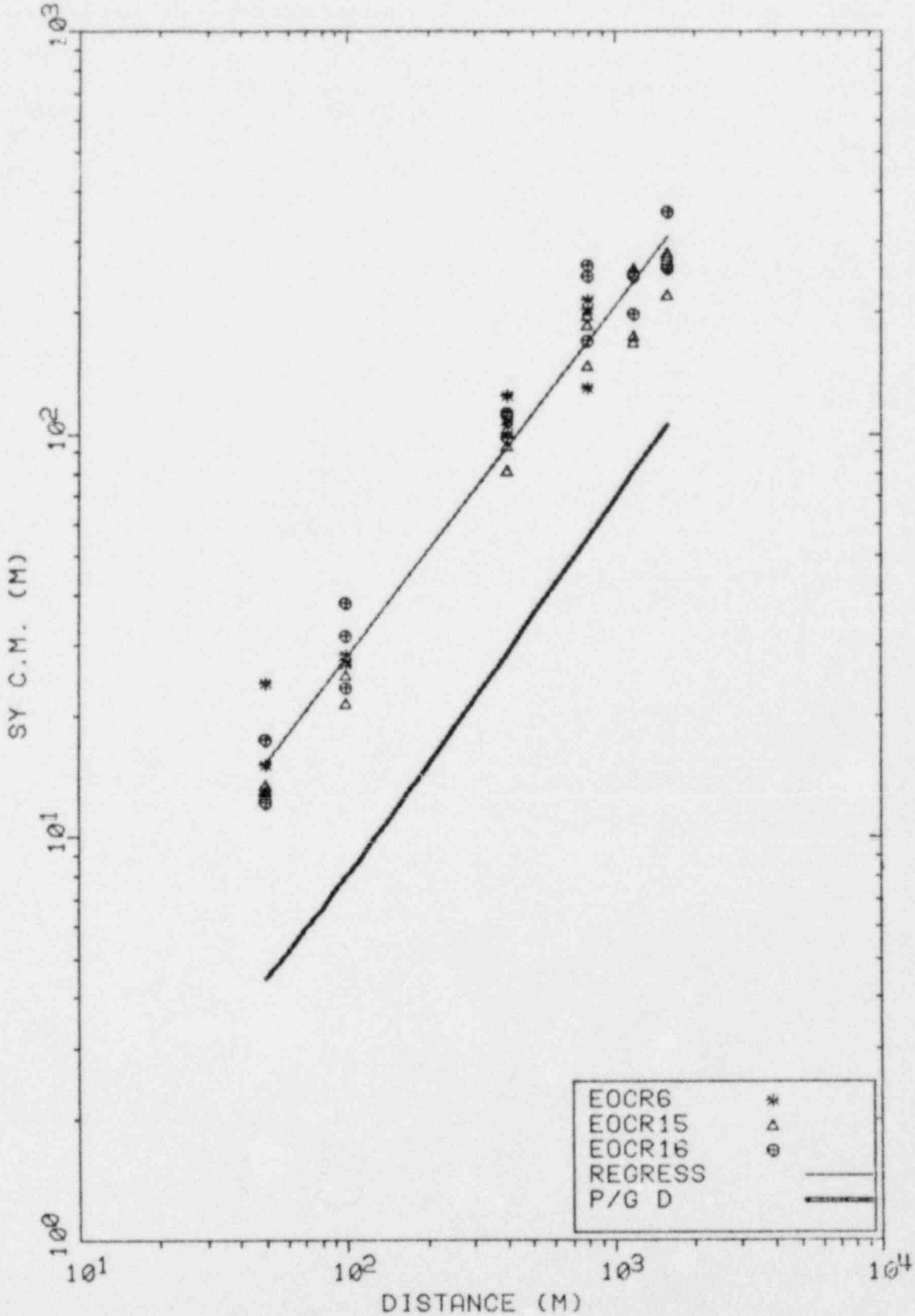

Figure 15. Tracer determined sigma-y values for stability class D were plotted versus downwind distance for all release heights with regression line for this set of values. Also included were Pasquill-Gifford expected values of sigma-y for stability class D.

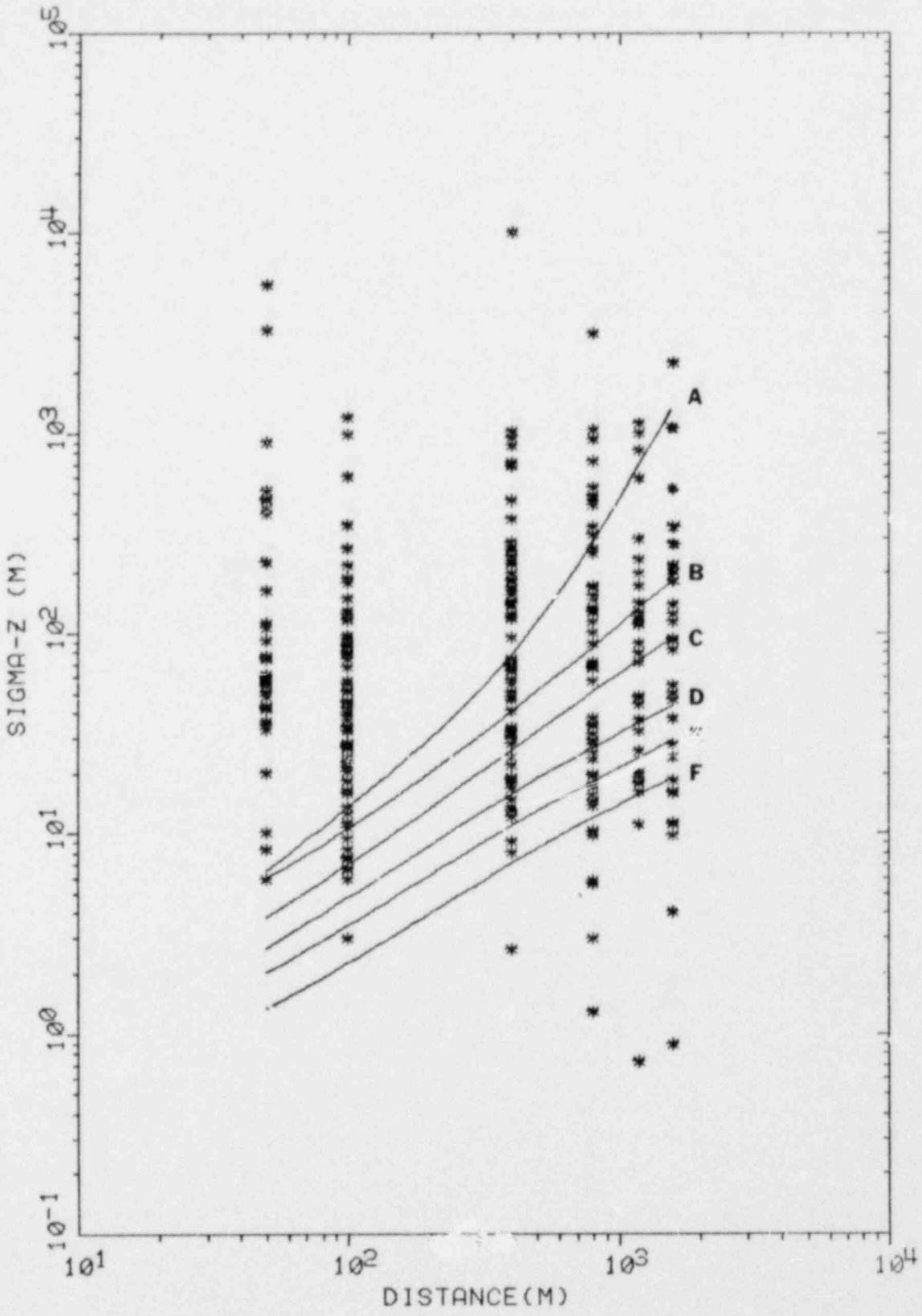

Figure 16. Tracer determined sigma-z effective values were plotted versus downwind distance for all stability classes. Data for all tracer release heights were included. Also included were curves of Pasquill-Gifford expected values of sigma-z for categories A, B, C, D, E, and F.

releases (for H = 25m) with σ_z for the roof and stack height discharged tracer showed good agreement; virtual σ_z for ground-level released tracer (with H = 1m) 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 = 1m 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 = 25m 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 refered 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.

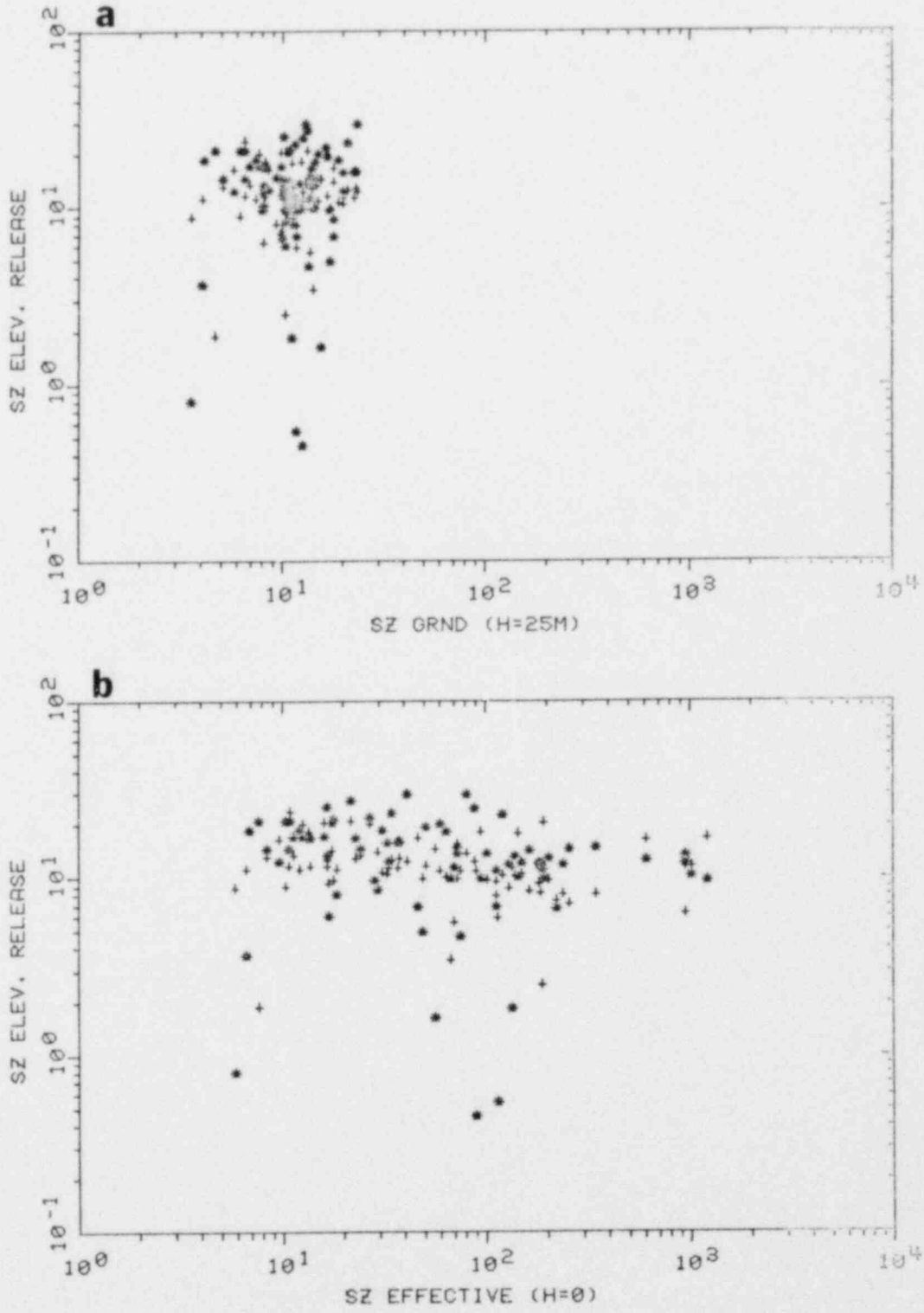

Figure 17. Calculated sigma-z values for ground-level tracer releases were plotted versus corresponding calculations for roof and stack height releases of tracer. Sigma-z values for ground-level tracer were calculated for plume height of 25m (upper figure) and ground-level or 1 m (lower figure). Comparisons 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 variabilty 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	50m	100m	400m	800m	1200m	1600m
			RC (P/G peak conc./observed peak conc.)			
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	0.325
E	--	--	3.648	1.032	0.600	0.423	0.349
F	--	--	3.700	1.658	1.235	0.882	0.812
G	--	--	6.462	3.320	1.413	1.333	0.993

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	0.77?3	1.927	--	--
D	1.058E-08	1.551E-08	1.03?	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	10.6?	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	PY	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

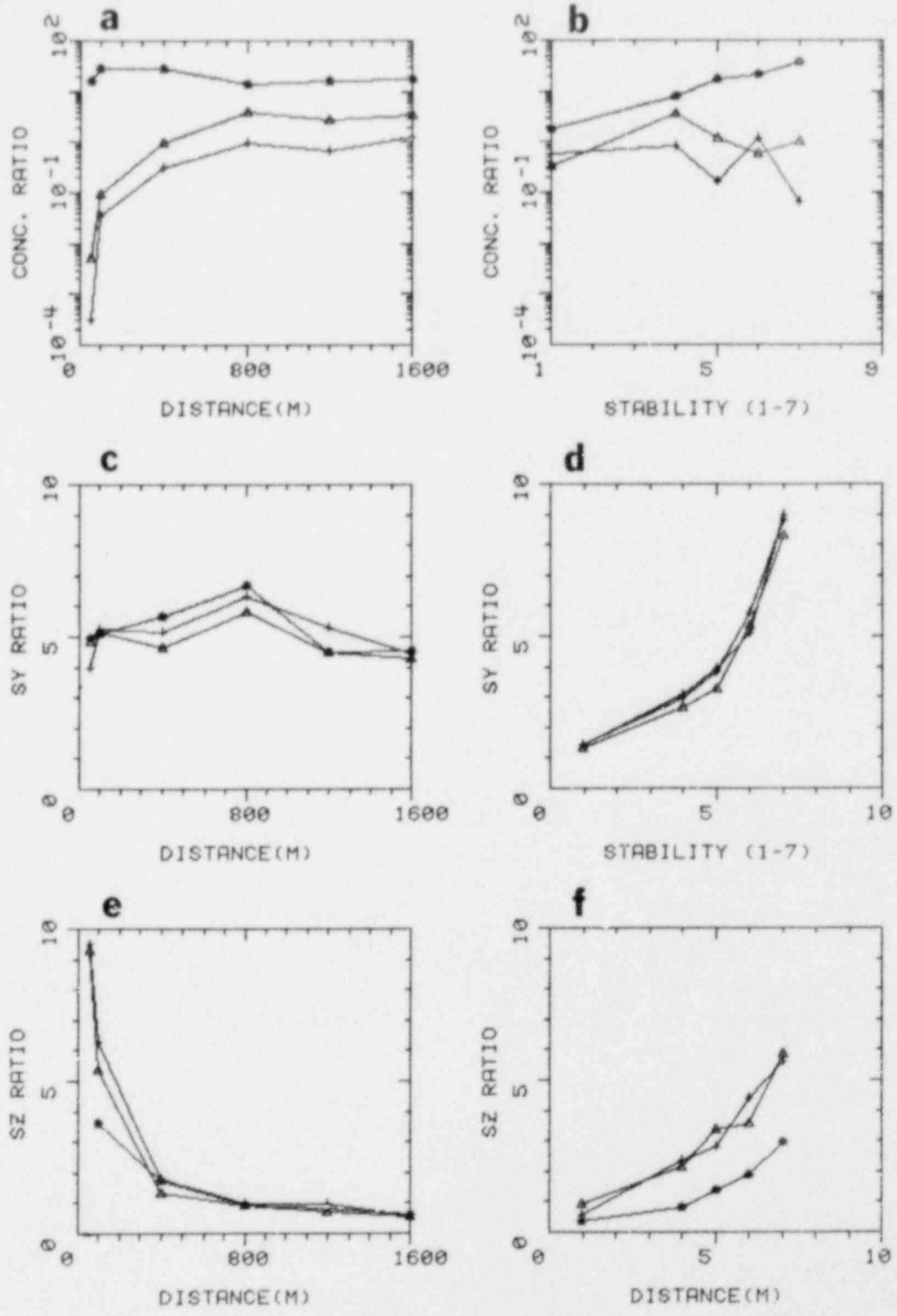

Figure 18. Averaged ratios of normalized concentration, sigma-y, and sigma-z for ground-level, roof, and stack released tracers. The first column of plots contain pooled averages for all stability categories for specific arc distances. The second column of plots contain pooled averages for all arc distances 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 EOCR 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 $\sigma_y = f(x).\sigma_\theta.X$, an adjusted standard deviation of direction, $\sigma_\theta.f(x)$, was appropriate. Example adjusted values for X = 800m 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) σ_θ(effective) = f(x) * σ_θ (Gifford, 1968) where f(x)=0.61 at x=800m

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 σ_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. $\sigma\theta$>25 to 30°) the effect of the EOCR structure on lateral plume spreading became indistinguishable from the expected plume spreading in the atmosphere without the structure present.

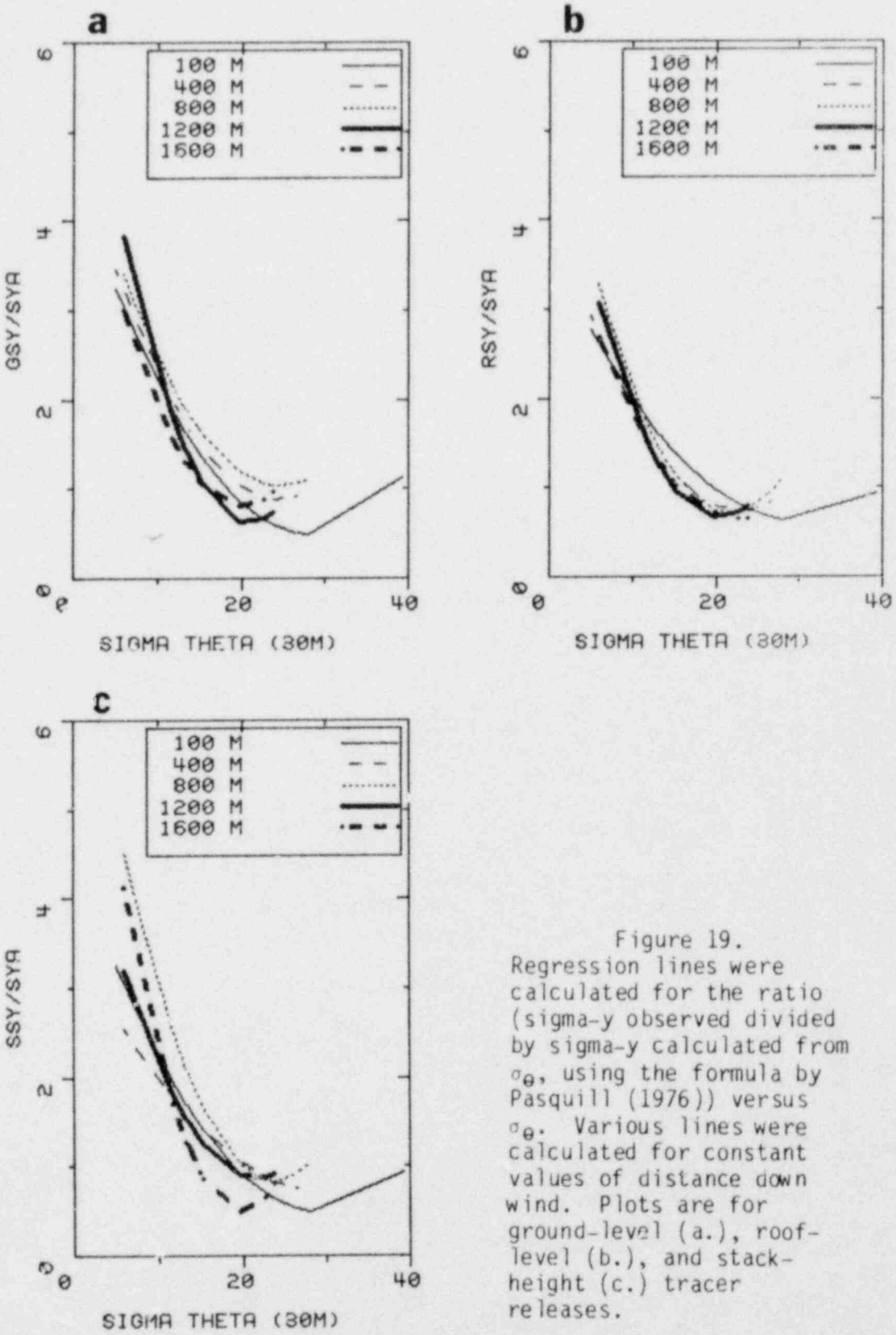

Figure 19. Regression lines were calculated for the ratio (sigma-y observed divided by sigma-y calculated from σ_θ, using the formula by Pasquill (1976)) versus σ_θ. Various lines were calculated for constant values of distance down wind. Plots are for ground-level (a.), roof-level (b.), and stack-height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

4.7 Wake Dilution Estimates Using the "cA" Term.

To account for effects which alter effluent plume dimensions within airfows 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 = o. 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

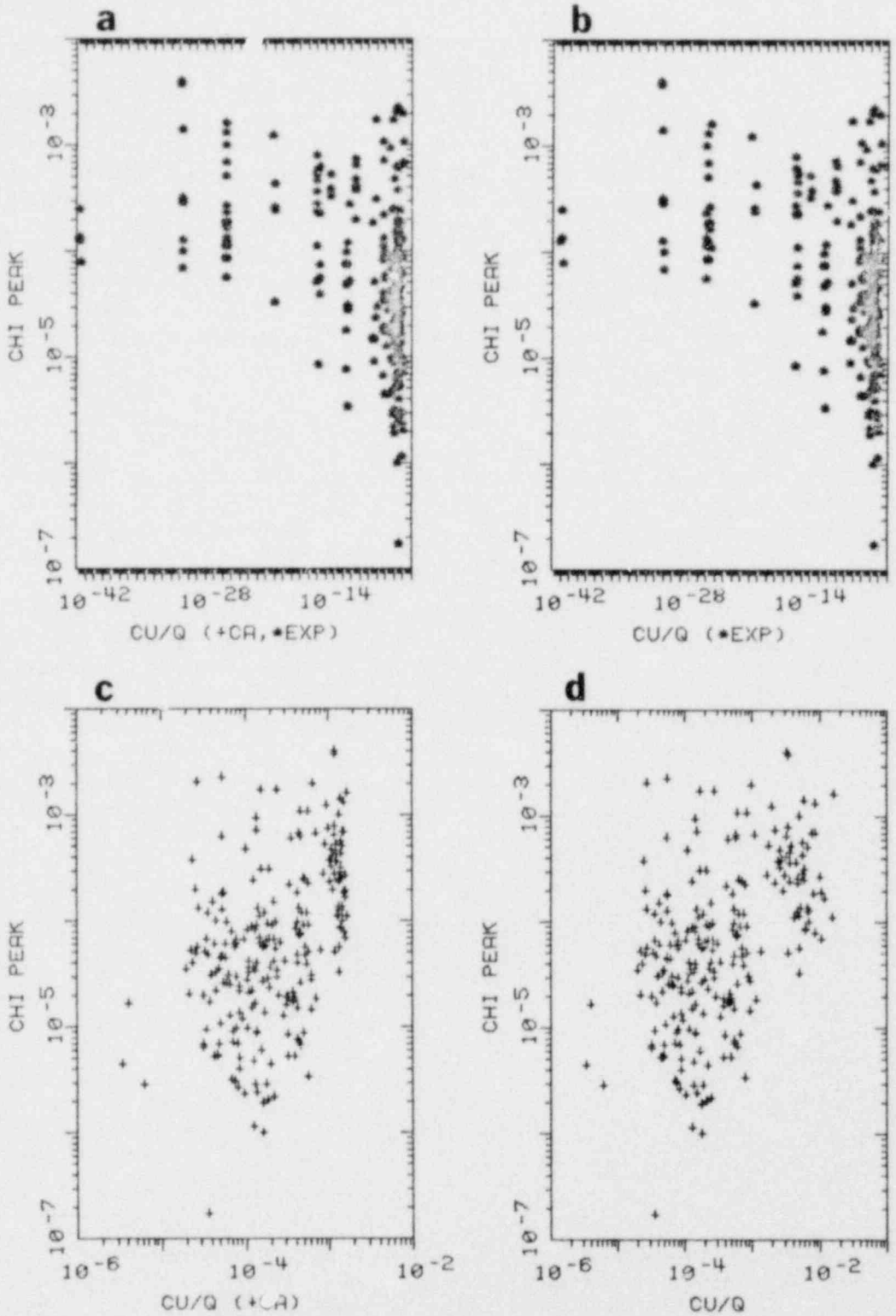

Figure 20. Calculated ground-level normalized concentrations were plotted versus observed normalized maximum concentrations (CHI PEAK). All stability categories, release heights, and all but 50m arc data were plotted. Calculations were made using eqns (7) and (8) with z=o. In figures 20c and 20d H=o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

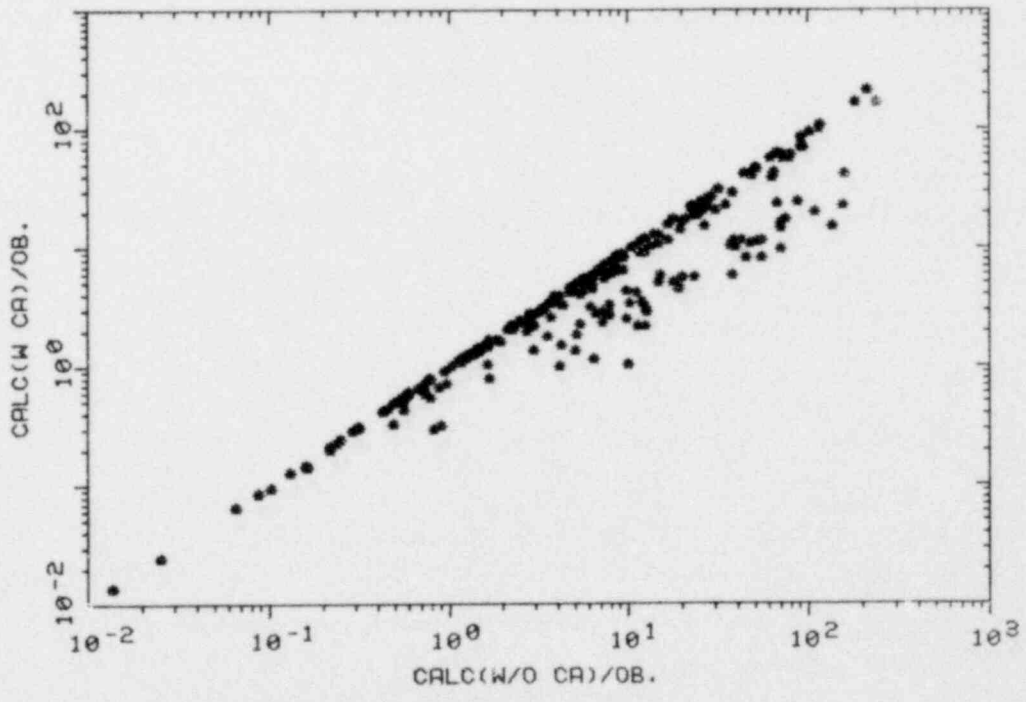

Figure 21. Relative contributions of the add-on cA term are shown by ratios of calculated axial (without the cA term) concentrations divided by observed maximum concentrations (abscissa) versus the corresponding ratios (ordinate) calculated with inclusion of the cA term.

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.

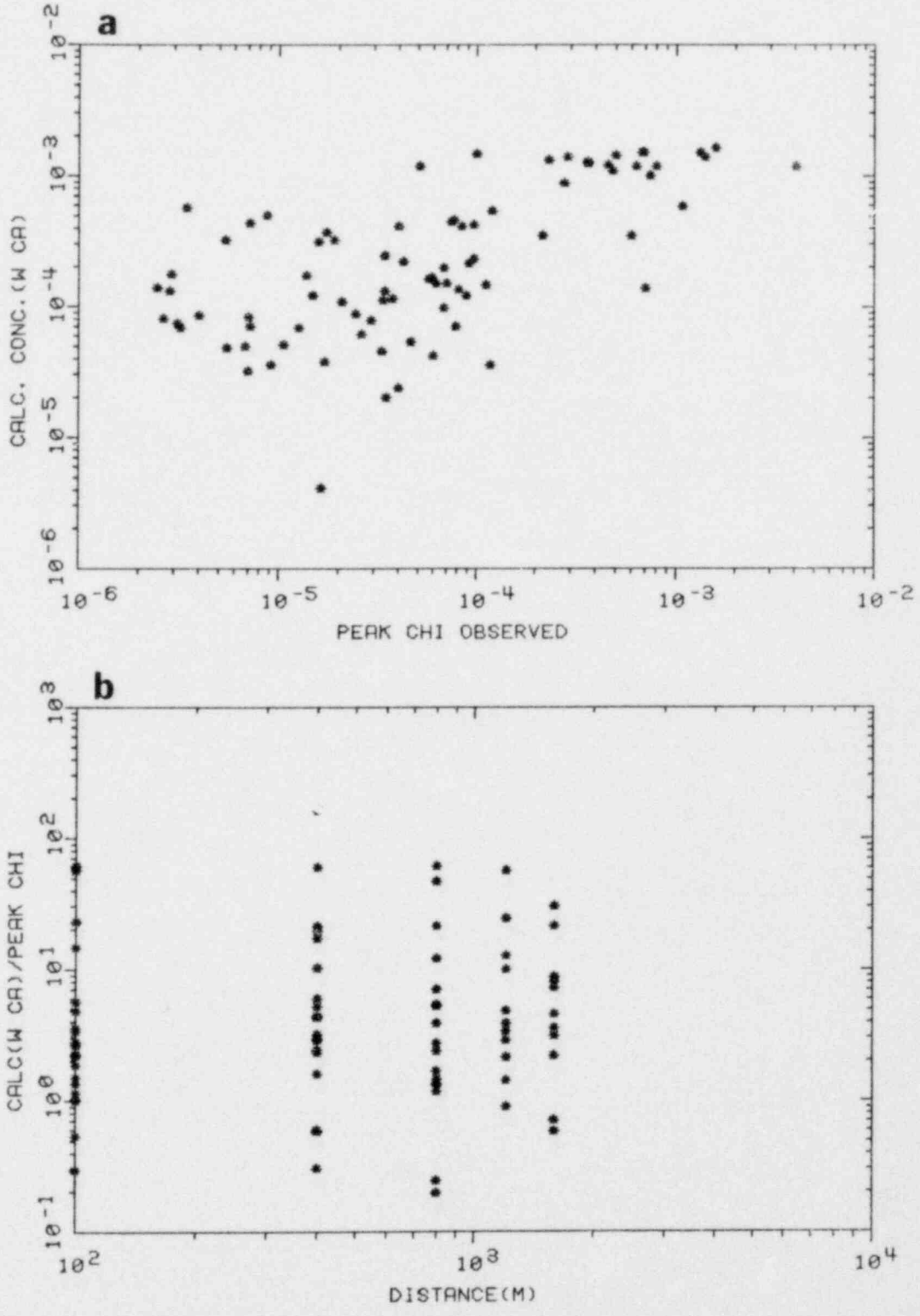

Figure 22. Comparisons of calculated (including the cA term) versus observed maximum concentrations are plotted for only ground-level tracer releases. Calculated values were plotted versus observed values in fig. 22a; most values were calculated too large. Ratios of calculated divided by observed concentration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

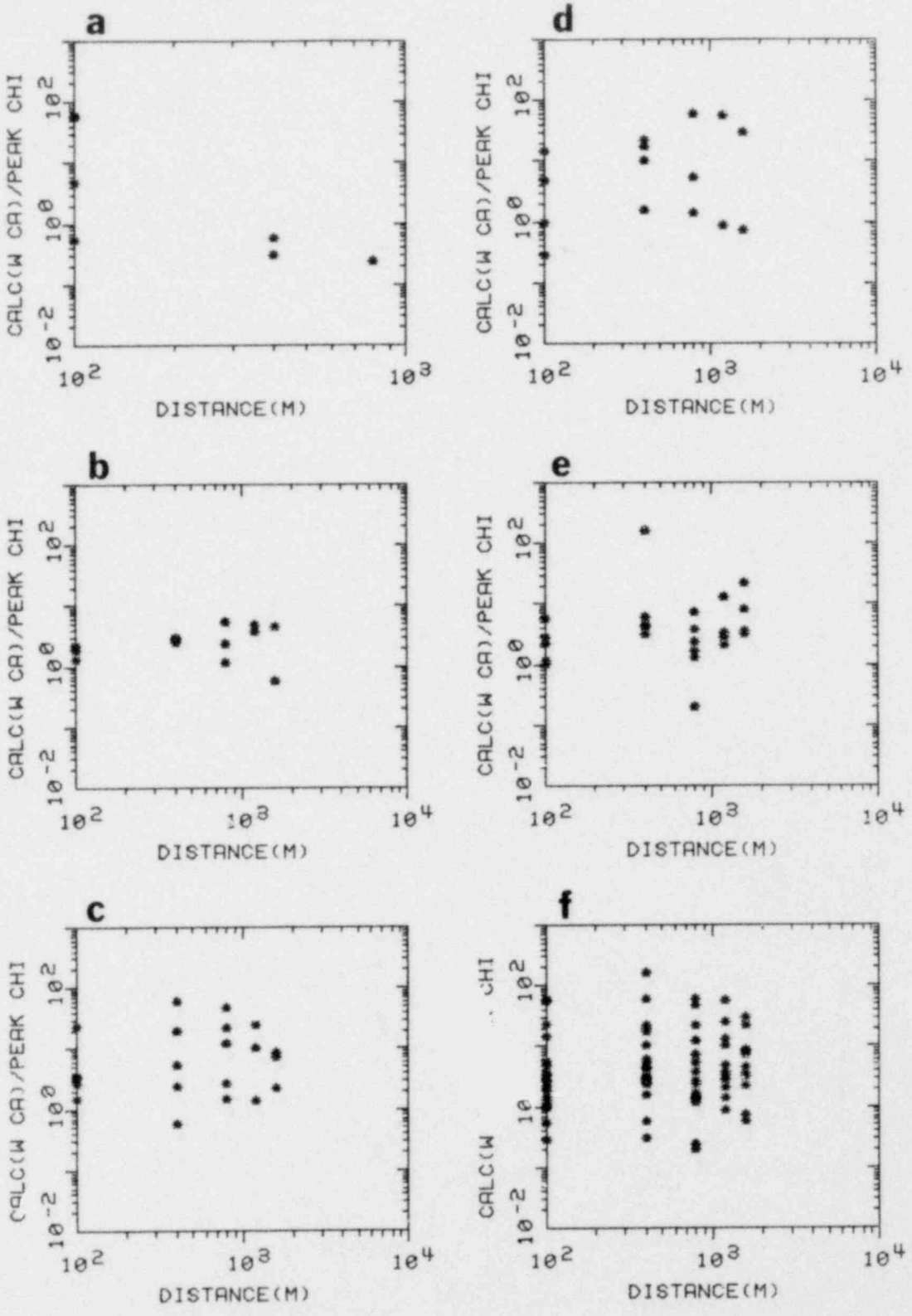

Figure 23. Ratios (of calculated divided by observed concentrations) versus distance are plotted for ground-level tracer releases. Plots were made for particular stability categories (fig. 23a for stability A, fig. 23b for D, fig. 23c for E, fig. 23d for F, fig. 23e for G) and for all stabilities in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

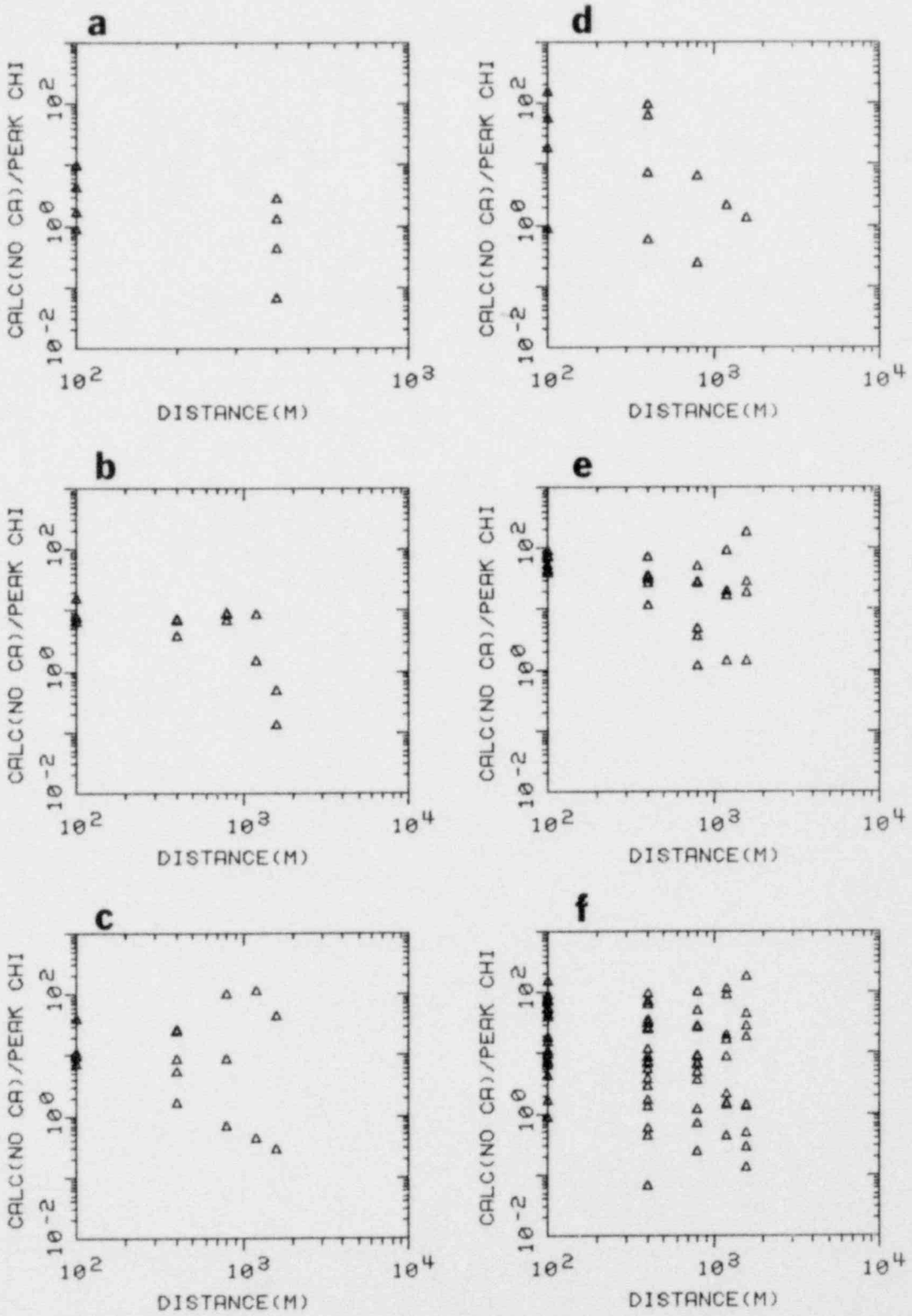

Figure 24. Ratios (of calculated divided by observed concentration) versus distance plotted for roof-level tracer releases. Plots were made for particular stability categories (fig. 24a for stability A, fig. 24b for D, fig. 24c for E, fig. 24d for F, fig. 24e for G) and for all stabilities in fig. 24f.

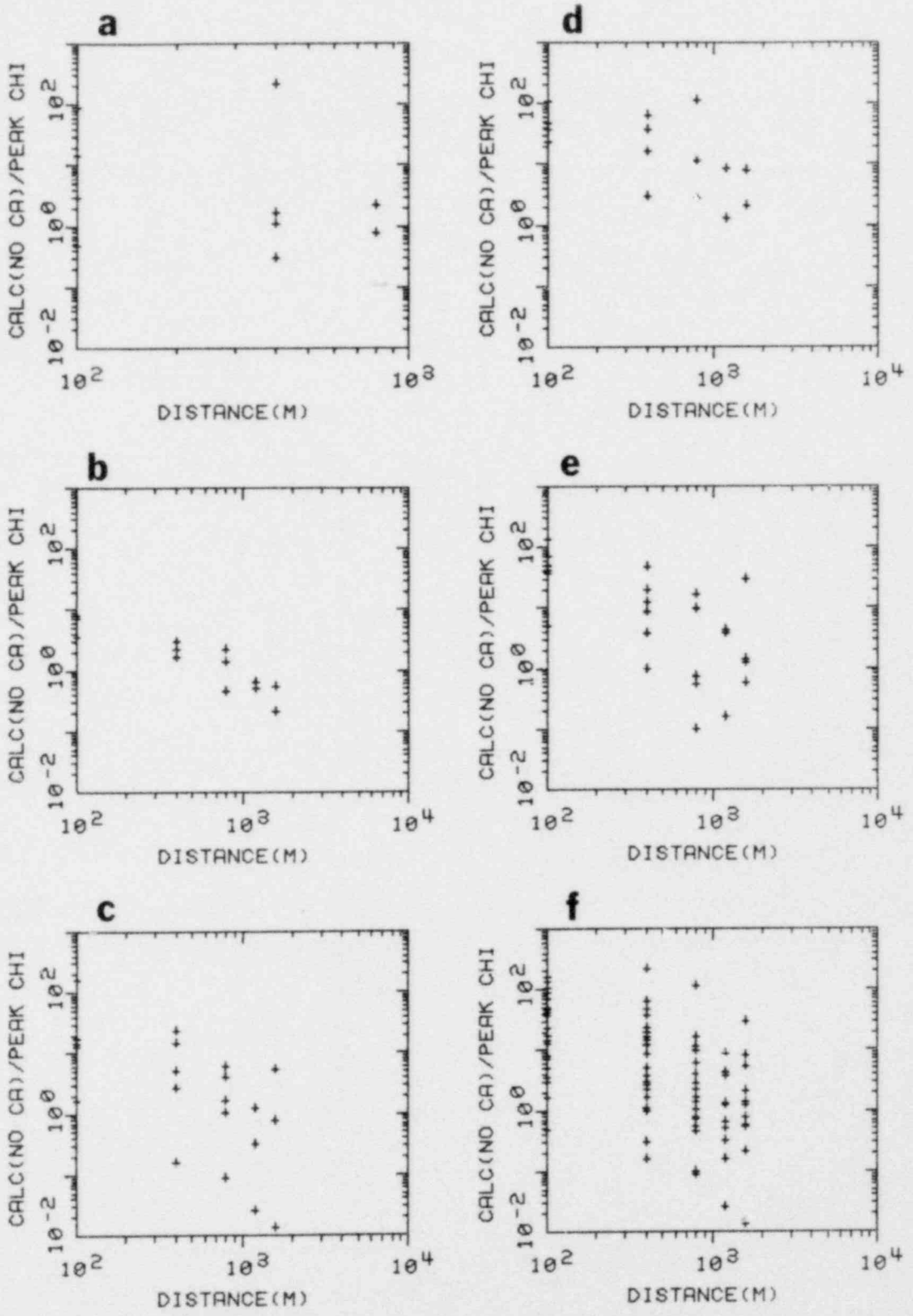

Figure 25. Ratios (of calculated divided by observed concentration) versus distance are plotted for stack tracer releases. Plots were made for particular stability categories (fig. 25a for stability A, fig. 25b for D, fig. 25c for E, fig. 25d for F, fig. 25e for G) and for all stabilities in fig. 25f.

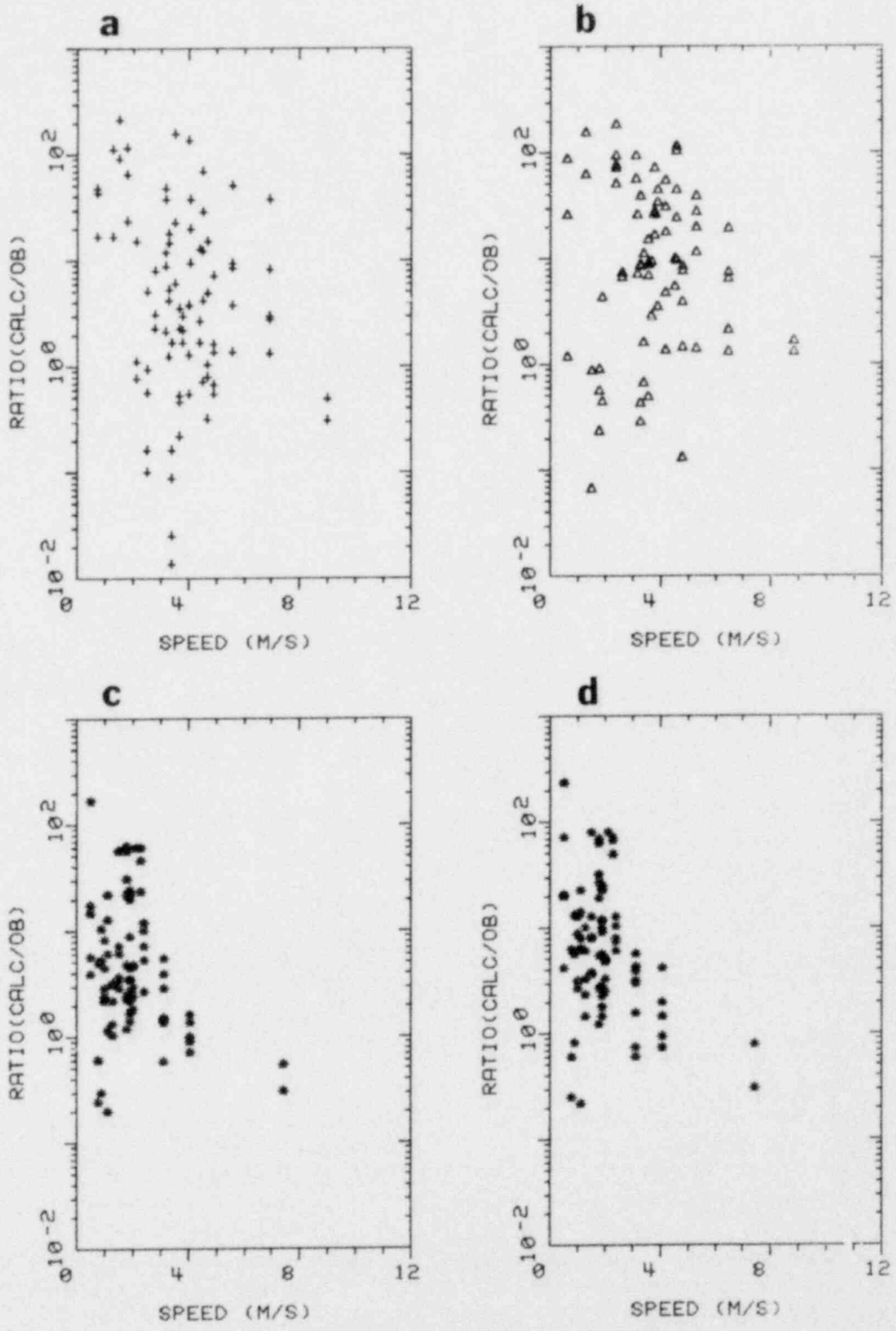

Figure 26. Ratios (of calculated divided by observed maximum concentrations) versus windspeed at 30m. Stack released tracer ratios are shown in fig. 26a and roof released tracer ratios are in fig. 26b. Ground-level tracer ratios are in figures 26c and 26d. Ratios in fig. 26c were based upon calculated 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 (SF6), 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.	1. Downwash of plume into cavity region.
2. Initial plume broadening laterally and vertically	2. Initial plume broadening laterally and vertically
3. $\sigma_y \simeq 5*(\sigma_y(P/G))$	3. $\sigma_y \simeq (5)*(\sigma_y(P/G))$
4. $\sigma_z \simeq 5*(\sigma_z(P/G))$	4. $\sigma_z \simeq (5 \text{ to } 10)*(\sigma_z(P/G))$
5. $C_g \simeq (0.1 \text{ to } .04)*(C_p(P/G))$	5. $C_g \geq (200 \text{ to } 3000)*(C_p(P/G))$
Transition Zone	**Transition Zone**
1. $\frac{\partial}{\partial x}\sigma_y \simeq$ rate for P/G growth	1. $\frac{\partial}{\partial x}\sigma_y \simeq$ rate for P/G growth
2. $\frac{\partial}{\partial x}\sigma_z <$ rate for P/G growth	2. $\frac{\partial}{\partial x}\sigma_z <$ rate for P/G growth
3. $\sigma_y \simeq (5.5)*(\sigma_y(P/G))$	3. $\sigma_y \simeq (5.5)*(\sigma_y(P/G))$
4. $\sigma_z \simeq (3.5 \text{ to } 1.5)*(\sigma_z(P/G))$	4. $\sigma_z \simeq (5.5 \text{ to } 1.5)*\sigma_z(P/G))$
5. $C_g \simeq (0.04)*(C_p(P/G))$	5. $C_g \simeq (30. \text{to } 1.)*(C_p(P/G))$
Far Wake Zone	**Far Wake Zone**
1. $\frac{\partial}{\partial x}\sigma_y \leq$ rate for P/G growth	1. $\frac{\partial}{\partial x}\sigma_y \leq$ rate for P/G growth
2. $\frac{\partial}{\partial_x}\sigma_z \simeq$ rate for P/G growth	2. $\frac{\partial}{\partial_x}\sigma_z \simeq$ rate for P/G growth
3. $\sigma_y \simeq (6. \text{ to } 4.5)*(\sigma_y(P/G))$	3. $\sigma_y \simeq (6. \text{ to } 4.5)*(\sigma_y(P/G))$
4. $\sigma_z \simeq (1.5 \text{ to } 0.6)*(\sigma_z(P/G))$	4. $\sigma_z \simeq (1.5 \text{ to } 0.5)*(\sigma_z(P/G))$
5. $C_g \simeq (.04 \text{ to } 0.7)*(C_p(P/G))$	5. $C_g \simeq (3. \text{ to } 0.3)*(C_p(P/G))$

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 wtihout 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 EOCR 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^o for EOCR) 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 fluctation 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 quantative 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.

Acknowledgments

Computer codes for special file handling and statistical processing were developed by G. R. Ackermann. The output data listings and graphical depictions of data were performed by generalized utility computer codes also developed by G. R. Ackermann.

Tower instrumentation and samplers for the test series were installed and operated by Mr. F. E. White.

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

REFERENCES

Conte, S. D. (1965): Elementary Numerical Analysis. McGraw-Hill Book Company, New York, 278 pp.

Dorn, W. S., and D. D. McCracken (1972): Numerical Methods with Fortran IV Case Studies. John Wiley and Sons, New York, 447 pp.

Gifford, F. A. (1961): Use of routine meteorological observations for estimating atmospheric dispersion. Nuclear Safety, 2(4): 47-51

Gifford, F. A. (1968): Diffusion in the lower layers of the atmosphere Meteorology and Atomic Energy 1968, D. H. Slade, ed., USAEC TID 24120, 65-116.

Halitsky, J. (1968): Gas diffusion near buildings. Meteorology and Atomic Energy 1968, D. H. Slade, ed., USAEC TID 24190, 221-255.

Hunt, J. C. R., personal communication, 1980.

Lovelock, J. E., R. J. Maggs, and E. R. Adlard (1971): Gas-phase coulometry by thermal electron attachment. Anal. Chem., 43:1962-1965.

Pasquill, F. (1961): The estimation of the dispersion of windborne material. Meteorol. Mag. 90:33-49.

Pasquill, F. (1974): Atmospheric Diffusion: The Dispersion of Windborne Material from Industrial and Other Sources. D. Van Nostrand Company, Ltd., London, England, 429 pp.

Pasquill, F. (1976): Atmospheric Dispersion Parameters in Gaussian Plume Modeling. Part II. Possible Requirements for Change in the Turner Workbook Values. Environmental Monitoring Series No. EPA-600/4-76-030b, U. S. Environmental Protection Agency, Research Triangle Prk, North Carolina, 44 pp.

Peterka, J. A., and J. E. Cermak (1975): Turbulence in building wakes 4th Internation. Conference on Wind Effects on Buildings and Structures, London, United Kingdom, 8-12 September, 1975.

Sagendorf, J. F., and C. R. Dickson (1974): Diffusion under low wind speed, inversion conditions. NOAA Tech. Memo., ERL ARL-52, Air Resources Laboratories, Idaho Falls, Idaho.

Sagendorf, J. F., N. R. Ricks, G. E. Start, and C. R. Dickson (1980): Diffusion near buildings as determined from atmospheric tracer experiments. NOAA Tech. Memo., ERL ARL-84, Air Resources Laboratories, Idaho Falls, Idaho.

Start, G. E., J. H. Cate, C. R. Dickson, N. R. Ricks, G. R. Ackermann and J. F. Sagendorf (1977): Rancho Seco building wake effects on atmospheric diffusion. NOAA Tech Memo., ERL ARL-69, Air Resources Laboratories, Idaho Falls, Idaho.

Turner, D. B. (1970): Workbook of Atmospheric Dispersion Estimates, Public Health Service Publication No. 999-AP-26, PB-191482. U. S. Dept. of Health, Education, and Welfare, Public Health Service, Div. of Air Pollution, Cincinnatti, Ohio, 88 pp.

Wilson, R. G., G. E. Start, C. R. Dickson, and N. R. Ricks (1976): Diffusion under low windspeed conditions near Oak Ridge, Tennessee, NOAA Tech. Memo., ERL ARL-61, Air Resources Laboratories, Idaho Falls, Idaho.

Yansky, G. R., E. H. Markee, Jr., A. P. Richter (1966): Climatography of the National Reactor Testing Station, IDO-12048, U. S. Atomic Energy Commission, Idaho Falls, Idaho, 184 pp.

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]	ΔT/ΔZ[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 $C^o/100m$ (based on $T_{30m}-T_{10m}$)

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 inverval at 10m.

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

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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	7.58709E+05	70109.	11.000	16.970
	21.140	10.342	7.9461	6.1269	1.7268
	63.140	37.466	2.9817	2.2972	3.8322
	5.3013	0.36810	0.36454	7.96954E-02	
2	4.0000	7.58709E+05	70329.	12.000	13.413
	19.595	12.229	5.1785	4.2032	0.94605
	26.916	17.667	0.89068	2.7997	3.5800
	5.3516	0.28747	0.34271	7.67408E-02	
3	4.0000	7.58709E+05	70529.	11.000	15.314
	22.644	14.276	7.5914	5.3529	1.8622
	57.823	28.654	1.1252	3.8833	3.6814
	5.7651	0.45254	0.37556	0.16328	
4	4.0000	7.58709E+05	70729.	12.000	15.633
	22.681	14.581	8.4184	5.1017	10.400
	78.735	26.827	100.33	3.8148	3.6828
	4.4511	0.33416	0.37384	2.1612	
5	4.0000	7.58709E+05	70929.	12.000	19.900
	18.924	13.350	11.142	5.4125	19.788
	124.14	29.235	375.98	3.1379	4.8438
	2.4082	0.63993	0.48503	2.4956	
6	4.0000	7.58709E+05	71129.	12.000	21.794
	23.646	13.865	5.7118	5.9819	3.5216
	32.625	34.832	12.482	3.6379	4.3345
	0.71926	0.25468	0.41176	2.09058E-02	
7	4.0000	7.58709E+05	71329.	12.000	17.379
	21.696	14.086	8.9757	7.4426	10.911
	88.563	55.332	119.86	3.2145	3.9662
	4.2966	0.38724	0.48399	2.0516	

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	7.58709E+05	72929.	12.000	35.852
	37.425	20.647	7.1475	7.0492	5.6892
	51.887	49.692	32.321	2.9588	3.5158
	4.6327	0.41742	0.39082	0.53284	
16	4.0000	7.58709E+05	73039.	8.0000	35.552
	40.788	28.889	8.7464	8.5327	6.1419
	76.588	72.908	37.723	3.5898	3.5657
	4.9178	0.47247	0.51114	0.40736	
17	5.0000	7.58718E+05	1.10000E+05	12.000	263.23
	257.34	261.36	9.9529	8.7128	9.1864
	99.868	75.913	60.926	7.6966	9.4244
	9.2950	1.8583	0.95491	1.1813	
18	5.0000	7.58718E+05	1.11000E+05	12.000	264.84
	268.38	271.16	9.1959	6.4192	6.5988
	84.564	41.287	43.439	5.6518	6.3803
	6.9642	0.94298	1.0312	0.77551	
19	5.0000	7.58718E+05	1.11550E+05	2.0000	258.26
	243.85	244.97	42.884	32.370	28.448
	1639.1	1847.8	889.82	5.7579	7.0993
	9.1748	1.5493	2.8369	1.9877	
20	5.0000	7.58716E+05	1.11750E+05	12.000	246.65
	247.51	245.83	14.886	12.338	13.448
	219.20	149.50	188.63	5.3818	5.9189
	6.4480	1.3661	1.6999	1.6244	
21	5.0000	7.58718E+05	1.11950E+05	12.000	243.90
	245.41	244.28	16.349	11.512	11.126
	267.28	132.52	123.78	6.4187	7.3897
	8.5893	2.2484	2.5132	2.5112	

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	7.58709E+05	71529.	12.000	9.8653
	18.412	11.725	12.060	6.9574	7.3845
	145.45	47.824	54.531	3.8638	3.6542
	4.4195	0.48954	0.48316	1.1965	
9	4.0000	7.58709E+05	71729.	12.000	13.645
	17.993	9.8132	10.884	7.2373	5.1212
	116.71	52.378	26.227	2.9488	3.5129
	4.9229	0.43864	0.32315	0.41585	
10	4.0000	7.58709E+05	71929.	12.000	23.893
	23.446	14.752	13.276	7.9447	7.1288
	176.26	63.118	58.888	2.9014	3.4857
	4.9823	0.39327	0.45999	1.1833	
11	4.0000	7.58709E+05	72129.	12.000	17.906
	29.619	13.649	5.2071	9.4396	5.8548
	27.114	89.187	25.551	3.5464	3.9287
	5.2344	0.51141	0.50843	0.34322	
12	4.0000	7.58709E+05	72329.	11.000	19.576
	21.541	14.787	7.9478	5.8461	4.5233
	63.154	34.177	12.414	3.2921	3.7274
	5.2293	0.53306	0.47863	0.34738	
13	4.0000	7.58709E+05	72529.	12.000	25.250
	29.921	18.674	11.312	7.7473	2.6533
	127.96	60.020	7.8081	2.6053	3.2690
	5.1610	0.49187	0.58315	0.42701	
14	4.0000	7.58709E+05	72729.	12.000	27.743
	33.289	18.644	9.9783	8.6018	4.9746
	98.487	75.373	24.747	2.6970	3.2874
	4.7111	0.49484	0.46113	0.35183	

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	7.58718E+05	1.12150E+05	12.000	252.32
	254.05	258.96	8.2833	11.422	5.5604
	69.613	138.46	38.919	7.2274	8.8491
	6.9685	1.2961	1.8815	1.0029	
23	5.0000	7.58718E+05	1.12350E+05	12.000	239.26
	241.81	244.79	10.133	8.6393	4.6364
	182.67	74.638	21.497	7.5734	8.8828
	9.3768	1.3796	1.3882	0.99791	
24	5.0000	7.58718E+05	1.12550E+05	12.000	239.97
	238.47	239.15	10.884	10.777	10.578
	188.88	116.15	111.89	7.1232	7.9558
	9.2247	1.2549	1.3786	1.9147	
25	5.0000	7.58718E+05	1.12750E+05	12.000	242.25
	243.54	244.88	7.8282	7.9888	4.2288
	49.294	62.558	17.876	9.3988	10.595
	11.352	1.1954	1.2431	0.96482	
26	5.0000	7.58718E+05	1.12950E+05	12.000	228.74
	231.87	233.68	9.8195	5.8929	5.7889
	64.634	34.726	33.512	8.1278	8.9867
	9.7147	1.1398	1.8488	0.95975	
27	5.0000	7.58718E+05	1.13238E+05	1.0000	238.88
	221.76	226.86	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000	5.6148	6.4642
	6.9823	0.00000	0.00000	0.00000	
28	5.0000	7.58718E+05	1.13438E+05	12.000	235.17
	240.06	238.38	8.8845	4.4118	3.1238
	64.873	19.457	9.7583	9.7958	10.102
	10.681	1.0548	1.0526	0.70586	

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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
29	5.0000	7.5071BE+05	1.13630E+05	12.000	242.47
	243.65	247.65	11.513	10.596	5.3738
	132.55	112.27	28.877	8.4893	9.1712
	10.745	2.0761	1.8855	1.4376	
30	5.0000	7.5071BE+05	1.13830E+05	12.000	247.88
	248.84	246.68	12.553	10.195	9.9622
	157.59	103.53	99.245	8.0073	8.8724
	9.5183	1.8989	1.1628	1.4227	
31	5.0000	7.5071DE+05	1.14030E+05	12.000	250.57
	246.64	254.88	7.1787	12.444	11.487
	51.534	154.85	131.96	7.0454	7.6211
	8.4777	1.9170	1.7585	1.0641	
32	5.0000	7.5[illegible]18E+05	1.14230E+05	12.000	251.39
	251.36	253.89	13.593	11.035	7.6978
	184.77	121.78	59.244	6.7207	7.4970
	8.7354	1.3889	1.2195	1.2284	
33	5.0000	7.5071BE+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	7.5071BE+05	1.14750E+05	12.000	248.11
	233.83	234.78	13.673	9.3197	10.171
	186.96	86.958	103.45	6.4496	7.1562
	7.8869	1.1007	0.99295	1.2758	
35	5.0000	7.5071BE+05	1.14910E+05	9.0000	240.41
	246.24	247.58	8.6627	7.8124	10.441
	75.842	49.174	109.08	7.8959	9.4236
	9.7993	2.0372	1.7727	2.0828	

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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
43	6.0000	7.50721E+05	74000.	12.000	67.324
	56.096	50.456	9.6333	9.2843	5.1423
	92.881	84.719	26.444	1.4422	1.5725
	3.0855	0.17987	0.25587	0.25683	
44	6.0000	7.50721E+05	74200.	12.000	92.693
	76.603	66.177	14.842	13.720	6.6668
	197.19	186.46	44.435	1.4705	1.6816
	2.6313	0.30602	0.27186	0.27122	
45	6.0000	7.50721E+05	74400.	12.000	106.64
	97.184	84.692	18.638	8.3129	6.3242
	113.17	69.185	39.595	1.6148	1.7667
	2.7364	0.28239	0.28218	0.34836	
46	6.0000	7.50721E+05	74600.	12.000	126.37
	110.67	91.590	18.484	5.4678	4.4692
	108.25	29.897	19.974	1.2848	1.6985
	2.7614	0.23187	0.28184	0.27164	
47	6.0000	7.50721E+05	74800.	12.000	112.84
	96.713	81.968	14.449	9.4368	4.8354
	208.79	98.174	23.381	1.2579	1.3232
	2.5583	0.23382	0.25367	0.19828	
48	6.0000	7.50721E+05	75000.	12.000	102.58
	92.131	81.142	9.8387	10.477	7.4014
	96.799	109.76	54.788	0.99688	1.2822
	2.9852	0.34074	0.49857	0.35874	
49	6.0000	7.50721E+05	75200.	12.000	99.732
	97.485	88.443	11.558	8.5968	6.0997
	133.41	73.698	37.207	1.6498	1.8584
	3.8293	0.42223	0.36351	0.50921	

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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
36	6.0000	7.50721E+05	72600.	12.000	15.028
	5.8878	23.390	4.7398	5.6455	2.9581
	22.465	31.083	8.7583	2.5281	2.7674
	3.9888	0.27397	0.12523	0.11268	
37	6.0000	7.50721E+05	72800.	12.000	15.755
	5.7037	16.898	7.1545	5.9709	4.1656
	51.187	35.651	17.361	2.5111	2.8782
	3.9464	0.29218	0.34166	0.16985	
38	6.0000	7.50721E+05	73000.	12.000	29.428
	14.865	19.952	11.736	9.2918	2.8862
	137.14	86.323	8.3299	2.1851	2.8179
	3.8817	0.32698	0.25391	0.14988	
39	6.0000	7.50721E+05	73200.	12.000	36.983
	23.788	25.239	7.6556	8.9785	6.5481
	58.608	88.614	42.877	2.2516	2.4882
	3.5564	0.34387	0.48196	0.30372	
40	6.0000	7.50721E+05	73400.	12.000	50.518
	43.298	38.684	12.375	13.206	5.4813
	153.15	174.41	29.174	1.5355	1.7991
	3.2815	0.28256	0.43152	0.30685	
41	6.0000	7.50721E+05	73600.	12.000	62.138
	51.495	43.680	6.9345	5.8946	3.4121
	48.897	34.746	11.643	1.8123	1.9588
	2.7168	0.26259	0.28395	0.15995	
42	6.0000	7.50721E+05	73800.	12.000	56.140
	44.693	47.523	7.9462	6.0325	5.9885
	63.142	36.391	35.862	1.6295	1.7782
	2.7572	0.22948	0.18697	0.29375	

1975 EDCR 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
50	6.0000	7.50721E+05	75400.	12.000	97.260
	82.749	71.467	15.344	8.4550	8.4841
	235.45	71.581	78.629	1.5929	2.0176
	2.9469	0.38048	0.24786	0.52961	
51	6.0000	7.50721E+05	75600.	12.000	82.742
	68.946	65.638	6.2197	7.3595	5.8284
	38.685	54.162	33.978	1.8754	1.9882
	2.6327	0.31227	0.33984	0.32201	
52	6.0000	7.50721E+05	75800.	12.000	64.484
	45.218	51.129	8.5631	10.434	8.0837
	73.327	108.86	65.346	1.2754	1.3636
	2.2543	0.17388	0.24868	0.33382	
53	6.0000	7.50721E+05	80000.	12.000	50.837
	46.999	58.158	8.1708	13.578	6.7842
	68.762	184.15	46.825	1.3488	1.6548
	2.4846	0.18535	0.39543	0.29888	
54	6.0000	7.50721E+05	80200.	12.000	55.423
	45.249	52.658	11.846	10.743	6.1548
	122.81	115.42	37.871	1.4427	1.6875
	2.4628	0.24647	0.31545	0.26267	
55	6.0000	7.50721E+05	80400.	12.000	37.646
	30.973	48.238	8.9648	12.138	7.4338
	88.726	147.34	55.261	1.4889	1.4998
	2.6288	0.26738	0.29682	0.33187	
56	6.0000	7.50721E+05	80600.	12.000	38.734
	23.572	27.615	18.568	11.993	8.9558
	111.52	142.83	88.286	1.9942	1.9979
	2.4322	0.25482	0.32985	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	7.50721E+05	60000.	12.000	21.336
	13.237	22.413	6.5936	10.793	9.9647
	43.476	116.58	90.296	1.6419	1.9233
	2.5354	0.28087	0.10947	0.27111	
8	6.0000	7.50721E+05	61000.	12.000	18.947
	9.7623	14.500	7.8074	12.903	13.620
	62.211	166.49	169.53	1.6182	1.6875
	2.1270	0.32345	0.25087	0.30595	
59	6.0000	7.50721E+05	61200.	12.000	22.113
	9.5523	10.620	5.5639	9.1700	10.412
	38.957	84.104	108.42	2.1681	2.1584
	2.2346	0.37662	0.33693	0.21050	
60	6.0000	7.50721E+05	61400.	12.000	26.733
	17.235	21.433	10.003	6.7451	8.0060
	116.78	45.496	65.397	2.0545	2.1317
	2.2243	0.40687	0.26582	0.27411	
61	6.0000	7.50721E+05	61600.	12.000	20.260
	10.330	13.915	10.793	15.573	11.812
	115.62	242.52	121.26	1.9544	2.1274
	2.4477	0.48461	0.42564	0.19552	
62	6.0000	7.50721E+05	61800.	12.000	19.535
	13.139	12.663	17.341	9.7495	0.8598
	388.72	95.852	78.496	2.2086	2.4838
	2.6717	0.33332	0.25893	0.27618	
63	6.0000	7.50721E+05	62000.	12.000	35.919
	17.452	16.878	13.367	14.159	14.353
	179.68	208.40	206.81	1.8611	2.2437
	2.5532	0.35860	0.40158	0.37235	

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	7.50722E+05	71250.	10.000	259.20
	253.59	63.883	3.7957	3.6626	23.451
	14.487	13.416	549.97	1.2909	1.3711
	8.36974	7.43601E-02	0.10382	0.23357	
72	7.0000	7.50722E+05	71750.	10.000	257.72
	264.06	318.00	5.9169	4.2065	0.2092
	35.009	17.690	67.391	1.3215	1.2031
	0.50269	0.17919	7.72681E-02	0.12097	
73	7.0000	7.50722E+05	72250.	12.000	302.93
	273.91	199.81	231.80	140.98	72.851
	53400.	22196.	5307.3	29456.	95050.
	77254.	1.71177E+05	2.22267E+05	1.65367E+05	
74	7.0000	7.50722E+05	72410.	9.8600	279.84
	291.51	338.78	4.4561	5.4989	11.729
	19.857	30.238	137.57	1.3547	1.3339
	0.89787	5.85525E-02	7.49048E-02	0.14994	
75	8.0000	7.50724E+05	45000.	12.000	333.26
	317.65	11.756	12.758	9.7369	7.2477
	162.79	94.680	52.529	0.80142	1.5138
	2.2597	0.18168	0.25666	0.21878	
76	8.0000	7.50724E+05	45200.	12.000	5.2026
	335.80	15.929	8.9453	9.2146	9.1960
	80.619	64.909	84.567	0.83767	1.2722
	1.8511	6.51382E-02	0.15768	0.20428	
77	8.0000	7.50724E+05	45400.	12.000	5.4793
	335.73	9.9485	12.489	9.5287	3.4667
	153.99	90.643	12.818	0.95623	1.3841
	2.0487	0.13819	0.21187	0.18336	

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	7.50721E+05	62200.	12.000	34.397
	19.925	21.473	11.271	11.194	9.9899
	127.84	125.38	98.205	1.8169	2.0838
	2.3384	0.35883	0.35174	0.41875	
65	6.0000	7.50721E+05	62220.	3.0000	19.086
	21.154	23.380	7.5362	2.7055	11.845
	56.795	7.7590	121.99	1.8341	1.9680
	2.5121	0.22884	0.17170	0.21913	
66	7.0000	7.50722E+05	65610.	11.000	338.65
	45.435	248.13	114.82	284.40	92.922
	13184.	41780.	8634.5	32652.	0.72374
	36637.	86293.	2.5577	1.66081E+05	
67	7.0000	7.50722E+05	65930.	10.000	147.58
	153.94	110.54	4.3246	6.2998	3.3823
	18.702	39.561	10.983	1.0966	1.2516
	1.6277	0.77798E-02	9.98702E-02	9.79257E-02	
68	7.0000	7.50722E+05	70250.	12.000	117.81
	93.545	110.45	134.46	66.582	145.28
	18879.	4433.1	21188.	23356.	54772.
	46208.	97658.	1.38437E+05	1.38107E+05	
69	7.0000	7.50722E+05	70610.	11.000	100.39
	249.53	322.32	1.9387	88.865	138.01
	3.3818	7755.4	16983.	46262.	54442.
	45250.	1.53425E+05	1.60004E+05	1.09462E+05	
70	7.0000	7.50722E+05	70930.	11.000	321.29
	199.38	227.87	131.15	83.832	142.43
	17202.	7027.8	20287.	60564.	4007.6
	15.597	1.45355E+05	11927.	39.128	

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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	7.50724E+05	45600.	12.000	348.80
	323.49	4.3365	9.6249	6.1298	4.4210
	92.638	37.575	19.545	0.93494	1.3875
	1.9261	6.66731E-02	0.13764	0.12252	
79	8.0000	7.50724E+05	45800.	12.000	314.15
	297.18	338.86	15.612	17.886	12.288
	243.73	319.89	151.00	0.80798	0.97991
	1.4758	0.21556	0.23703	0.26213	
80	8.0000	7.50724E+05	50000.	13.000	250.62
	239.78	314.12	7.8432	12.694	6.3543
	61.516	161.14	40.887	1.6327	1.5971
	1.4579	0.40307	0.23952	0.16363	
81	8.0000	7.50724E+05	50200.	12.000	241.41
	252.94	311.05	8.2348	5.3229	0.7093
	67.799	28.334	77.252	0.69667	0.84276
	1.6396	0.16503	9.36149E-02	0.24833	
82	8.0000	7.50724E+05	50400.	12.000	247.97
	269.28	312.63	14.178	9.8109	12.156
	200.78	96.253	147.77	0.62044	1.1166
	2.1664	0.54996E-02	0.10989	0.46736	
83	8.0000	7.50724E+05	50430.	4.0000	258.14
	255.78	323.42	13.649	7.7208	14.099
	106.29	59.611	198.77	0.55772	1.5651
	2.0084	5.96811E-02	0.40069	0.38540	
84	9.0000	7.50728E+05	60501.	50.000	351.34
	19.373	63.243	17.873	0.7017	19.900
	319.43	77.118	396.81	1.0310	1.3561
	1.2636	0.71369	0.53219	0.23134	

1975 EDCR 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 247.25 210.50 1.7503	7.50720E+05 12.879 126.41 0.69100	68701. 14.782 176.65 0.39795	60.000 11.243 2.3413 0.37799	321.62 13.291 3.4935
86	9.0000 337.58 85.974 2.2219	7.50720E+05 345.47 49.641 0.29122	68902. 9.2722 36.441 0.45364	31.000 7.0829 2.2290 0.27430	301.77 6.8366 2.6574
87	9.0000 345.19 97.527 2.2668	7.50720E+05 5.1545 38.349 0.32913	61102. 9.0756 28.339 0.62893	59.000 5.5090 1.6149 0.15263	322.88 6.1919 2.8737
88	9.0000 314.83 787.84 2.6127	7.50720E+05 8.6230 220.57 0.25418	61302. 26.590 137.50 0.36844	60.000 14.852 0.59792 0.17187	245.83 11.726 1.3847
89	9.0000 4.5446 348.47 2.8128	7.50720E+05 27.748 27.878 0.51875	61502. 18.694 13.582 0.24812	60.000 5.2088 0.49856 0.28189	3.4693 3.6854 1.6263
90	9.0000 351.69 69.788 2.3982	7.50720E+05 22.851 66.745 0.18943	61702. 8.3539 13.368 0.24139	60.000 8.1690 1.5956 0.31645	333.73 3.6551 2.4538
91	9.0000 336.81 56.472 3.2472	7.50720E+05 15.209 16.842 0.19229	61902. 7.5140 9.5654 0.25887	60.000 4.8852 1.4697 0.88228E-02	313.79 3.8968 2.2978

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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 4.3646	7.50720E+05 29.848 17.378 0.18264	63502. 5.5786 0.34646 0.15398	60.000 4.1677 2.3968 4.61943E-02	1.7617 8.58861 3.5016
100	9.0000 38.651 42.520 4.6876	7.50720E+05 38.647 13.564 0.14483	63702. 6.5207 6.3627 0.17374	60.000 3.6930 2.2189 0.19482	7.8829 2.5224 3.5581
101	9.0000 41.598 38.897 5.4437	7.50720E+05 35.663 22.636 0.18889	63902. 6.2368 2.1368 0.29236	60.000 4.7577 2.4388 0.16781	24.779 1.4618 3.8533
102	9.0000 47.849 53.241 4.9269	7.50720E+05 38.832 12.357 0.34243	64102. 7.2966 2.1737 0.24392	60.000 3.5153 2.3487 0.13295	31.617 1.4743 3.9955
103	9.0000 20.852 384.69 4.7766	7.50720E+05 35.283 274.41 0.28553	64302. 19.614 48.738 0.51786	60.000 16.565 2.1252 0.49389	8.7981 6.9813 3.1574
104	9.0000 46.943 41.151 5.0092	7.50720E+05 39.885 8.6560 0.35681	64502. 6.4149 2.7237 0.22840	60.000 2.9759 2.0684 0.14338	35.641 1.6584 4.3296
105	9.0000 42.186 123.28 5.7856	7.50720E+05 34.587 60.881 0.31391	64702. 11.183 3.2922 0.45883	60.000 7.8826 2.4892 0.24177	25.851 1.7895 3.6218

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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	7.50720E+05 25.758 91.276 0.12612	62102. 23.625 28.591 0.23476	60.000 9.5538 0.71786 0.18799	354.78 4.5377 2.0198
93	9.0000 357.34 29.826 3.3734	7.50720E+05 18.472 37.445 0.18563	62302. 5.4613 74.363 0.29163	60.000 5.2388 1.4551 0.24043	345.67 0.6234 2.4859
94	9.0000 358.97 113.69 3.2986	7.50720E+05 24.596 188.43 0.25157	62502. 18.662 23.973 0.30989	60.000 10.822 1.3655 0.13665	322.81 4.0962 2.4358
95	9.0000 2.4063 77.795 3.5098	7.50720E+05 21.321 83.718 0.42389	62702. 8.8202 8.8412 0.30852	60.000 9.1498 2.0437 0.[illegible]	342.86 2.8357 3.1992
96	9.0000 9.1616 43.761 3.9297	7.50720E+05 25.467 6.2947 0.29335	62902. 6.6152 6.4851 0.11368	60.000 2.5899 2.0459 0.10317	353.27 2.5466 3.3555
97	9.0000 12.497 32.996 4.1196	7.50720E+05 28.624 12.113 0.18859	63102. 5.7442 2.8245 9.36467E-02	60.000 3.4883 2.8594 7.74567E-02	357.35 1.4228 3.4137
98	9.0000 16.981 24.138 4.8481	7.50720E+05 27.557 10.150 0.20546	63302. 4.9122 2.6713 9.58183E-02	60.000 3.1872 2.4142 0.11016	356.50 1.6344 3.4522

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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	7.50720E+05 31.663 23.827 0.22746	64903. 7.4527 5.4780 0.17326	60.000 4.8813 2.0668 0.17574	2.8537 2.3380 2.9218
107	9.0000 15.802 122.64 4.9641	7.50720E+05 34.638 69.367 0.19868	65103. 11.874 8.7185 0.16188	60.000 8.3287 1.6994 0.21182	352.75 2.9527 2.6746
108	9.0000 38.367 181.55 5.4138	7.50720E+05 32.874 61.279 0.27868	65303. 10.877 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	7.50720E+05 34.321 201.92 0.35742	65503. 17.670 31.522 0.45618	60.000 14.218 1.9579 0.37634	1.8156 5.6145 2.7374
110	9.0000 37.900 74.057 5.5283	7.50720E+05 34.495 19.167 0.24187	65703. 8.6856 11.392 0.24838	50.000 4.3780 2.2897 0.31657	20.046 3.3752 3.6359
111	9.0000 42.664 47.155 5.9482	7.50720E+05 37.878 12.651 0.29711	65904. 6.8678 1.4969 0.24869	60.000 3.5568 2.6138 0.13916	30.044 1.2235 4.0155
112	9.0000 44.752 29.705 5.6562	7.50720E+05 38.106 15.828 0.24249	70104. 5.4582 1.1104 0.24858	60.000 7.8765 [illegible].3937 0.10118	33.712 1.8538 3.5498

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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	7.5072BE+05	78580.	59.000	35.398
	40.129	41.495	7.6719	5.4472	0.94839
	50.857	29.672	0.68434	2.5557	3.4272
	5.7070	0.35816	0.32063	9.9868E-02	
114	10.000	7.5073IE+05	1.12636E+05	41.000	141.37
	146.22	139.60	61.819	84.989	17.313
	3723.3	7223.1	299.74	0.66381	1.4338
	3.1729	0.73356	2.3894	1.0383	
115	10.000	7.5073IE+05	1.12037E+05	57.000	174.38
	161.79	176.60	14.381	11.856	7.8384
	284.52	123.13	49.539	2.7484	3.8114
	3.0727	0.98653	0.55895	0.52779	
116	10.000	7.5073IE+05	1.13038E+05	54.000	177.70
	174.81	176.10	23.553	9.8218	13.938
	554.75	96.468	194.29	1.4883	1.9653
	2.2146	0.78620	0.52435	0.78191	
117	10.000	7.5073IE+05	1.13239E+05	44.000	153.38
	147.85	164.62	61.834	24.591	12.685
	3823.5	604.70	160.90	0.75566	2.9346
	3.6459	1.1284	1.4383	0.68017	
118	10.000	7.5073IE+05	1.12639E+05	40.000	164.89
	149.22	168.74	32.572	7.7854	6.5970
	1861.0	59.374	43.520	9.8227E-02	3.8610
	4.2333	0.16569	0.40387	0.23586	
119	10.000	7.5073IE+05	1.13839E+05	40.000	157.76
	168.13	175.10	34.317	13.910	13.471
	1177.7	193.71	181.46	1.5190	3.0789
	3.2854	1.2928	0.85468	0.80623	

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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	7.5073IE+05	1.15439E+05	40.000	186.71
	194.92	192.24	29.338	8.7897	12.329
	848.74	75.858	152.81	0.73133	2.5716
	3.1941	0.69191	0.54339	0.54978	
128	10.000	7.5073IE+05	1.15639E+05	40.000	192.82
	198.26	207.66	27.493	5.8044	12.717
	755.86	25.851	161.73	0.30023	3.9879
	3.5369	0.45129	1.0125	0.74598	
129	10.000	7.5073IE+05	1.15839E+05	40.000	211.73
	193.67	222.49	66.161	5.6452	8.3138
	4377.3	31.868	69.186	0.27292	4.3866
	4.6187	0.35618	0.77452	0.66383	
130	10.000	7.5073IE+05	1.20039E+05	40.000	244.31
	211.71	247.48	43.809	12.399	11.181
	1919.1	153.72	125.81	1.5287	5.8118
	4.8932	1.0986	0.86536	0.68198	
131	10.000	7.5073IE+05	1.2024IE+05	41.000	268.82
	234.31	259.84	44.700	14.957	11.983
	1998.8	220.73	143.59	0.25789	2.7647
	3.1426	0.36505	0.84323	0.56724	
132	10.000	7.5073IE+05	1.2044IE+05	40.000	184.10
	191.62	203.40	25.178	14.719	19.385
	633.91	216.64	372.70	0.27023	3.7527
	4.3239	0.35899	1.4817	1.7004	
133	10.000	7.5073IE+05	1.2064IE+05	40.000	288.69
	188.13	288.58	73.072	4.8335	7.4976
	5139.5	23.363	56.214	0.32724	5.1868
	5.6032	0.55966	0.55658	0.52197	

1975 EDCR 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	7.5073IE+05	1.14039E+05	40.000	108.54
	173.14	196.22	26.048	11.649	12.316
	678.86	135.68	151.69	0.31595	4.2275
	4.3834	0.77137	0.31008	0.42249	
121	10.000	7.5073IE+05	1.14239E+05	40.000	283.57
	184.56	187.26	36.298	7.3183	9.0489
	1317.6	53.648	98.982	1.4604	3.6244
	3.9898	1.2789	0.58788	0.54208	
122	10.000	7.5073IE+05	1.14439E+05	40.000	160.28
	163.10	178.82	39.624	6.7491	6.9806
	1570.1	45.550	48.948	0.36511	4.0559
	4.3448	0.71469	0.61956	0.60380	
123	10.000	7.5073IE+05	1.14639E+05	40.000	184.41
	169.68	176.44	13.665	5.0841	7.4713
	192.24	33.697	55.820	0.97116	2.3537
	2.3551	0.79645	0.58296	0.54429	
124	10.000	7.5073IE+05	1.14839E+05	40.000	141.85
	152.58	167.54	68.075	41.896	13.387
	3689.8	1755.3	177.89	0.34181	2.6189
	4.2149	0.35946	1.9826	0.75917	
125	10.000	7.5073IE+05	1.15039E+05	40.000	192.76
	174.88	202.51	28.375	11.856	11.417
	688.15	148.57	138.35	0.21836	3.2851
	3.3876	0.29651	0.68834	0.70631	
126	10.000	7.5073IE+05	1.15239E+05	40.000	212.50
	215.39	235.81	58.358	13.787	14.305
	3484.8	190.87	284.64	0.11911	1.7227
	1.7527	0.17458	0.45686	0.34985	

1975 EDCR 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	7.5073IE+05	1.20702E+05	0.0000	187.39
	184.83	217.80	2.3318	0.57159	7.3267
	11.896	0.32672	53.681	7.3657DE-02	4.9223
	5.0509	1.3068?E-02	0.38115	0.55776	
135	11.000	7.5081?E+05	1.11125E+05	60.000	81.529
	82.958	87.277	12.040	9.0181	11.696
	144.96	81.181	136.57	2.6871	2.5778
	2.7826	0.75836	0.68663	0.29326	
136	11.000	7.5081?E+05	1.11325E+05	60.000	130.21
	129.45	112.98	11.477	18.567	33.973
	131.73	344.75	1147.4	1.6261	1.4128
	1.3816	0.32703	0.39688	0.82102	
137	11.000	7.5081?E+05	1.11526E+05	60.000	90.987
	102.69	168.24	8.2089	25.446	37.887
	67.386	647.49	1369.5	0.65784	0.39730
	0.55370	0.36276	0.38745	0.48499	
138	11.000	7.5[illegible]+05	1.11726E+05	60.000	42.981
	15.228	28	92.812	57.650	13.174
	8466.1	33.[illegible]	173.55	0.31772	0.42671
	0.88449	0.51119	0.76441	0.86539	
139	11.000	7.5081?E+05	1.11926E+05	60.000	11.066
	32.264	17.533	30.387	22.206	20.217
	1473.5	493.11	796.17	1.3476	1.9115
	0.98887	0.51862	0.68327	0.67498	
140	11.000	7.5081?E+05	1.12126E+05	60.000	5.4548
	25.645	45.306	62.443	43.857	29.867
	3899.1	1923.4	644.92	0.60953	0.77951
	1.1206	0.41493	0.57848	0.57329	

1975 EDCR 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 72.864 173.34 2.8021	7.50812E+05 78.340 180.63 0.01858	1.12526E+05 13.166 73.454 0.65768	60.000 13.447 2.2269 0.52131	73.456 8.5785 2.4382
142	11.000 48.516 1001.5 1.6018	7.50812E+05 41.251 665.36 0.76434	1.12526E+05 31.646 416.18 0.67291	60.000 25.795 1.3764 0.53158	45.266 20.481 1.4832
143	11.000 359.06 2265.9 1.6116	7.50812E+05 20.997 1144.6 0.71033	1.12726E+05 47.601 709.81 0.65862	60.000 36.669 0.89477 0.71638	341.80 26.042 1.1144
144	11.000 188.81 348.14 2.1389	7.50812E+05 100.13 211.50 0.54621	1.12927E+05 18.650 336.65 0.81573	60.000 14.543 2.4666 0.45968	183.53 18.348 2.4223
145	11.000 137.25 833.62 0.92368	7.50812E+05 112.64 671.89 0.53539	1.13127E+05 28.062 203.98 0.52461	60.000 25.921 1.2581 0.46788	146.24 14.279 1.2395
146	11.000 227.77 498.78 0.59321	7.50812E+05 175.45 366.53 0.41748	1.13327E+05 22.152 1843.6 0.32536	60.000 19.145 1.0576 0.38249	220.82 32.296 0.96286
147	11.000 293.23 1956.7 0.83188	7.50812E+05 235.42 7126.3 0.59993E-02	1.13582E+05 44.235 171.16 0.25335	60.000 84.477 0.32695 0.19232	188.94 13.853 0.23378
148	12.000 38.028 62.673 2.1739	7.50813E+05 49.350 52.615 0.17388	74401. 7.9166 22.165 0.1689.	65.000 7.2536 1.2388 0.17969	26.056 4.7088 1.2083

1975 EDCR 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 52.441 184.82 3.5221	7.50813E+05 44.362 89.842 0.33341	00004. 10.199 65.655 0.35638	60.000 9.4785 1.9241 0.49978	51.429 8.1828 2.2138
157	12.000 44.405 71.182 3.5607	7.50813E+05 44.380 64.464 0.31156	00205. 8.4369 53.745 0.33421	70.000 9.0290 2.2843 0.44696	41.986 7.3311 2.3068
158	12.000 44.100 62.674 4.2190	7.50813E+05 41.889 53.810 0.33529	00405. 7.9167 38.987 0.39474	69.000 7.2688 2.9468 0.43615	39.763 5.5666 3.1167
159	12.000 38.811 72.868 4.1424	7.50813E+05 34.783 67.881 0.40678	00605. 8.4888 52.193 0.42319	70.000 8.2398 2.5478 0.53679	36.568 7.2245 2.9068
160	12.000 35.196 73.627 4.5818	7.50813E+05 36.417 68.969 0.41468	00805. 8.5886 46.241 0.43481	70.000 8.2987 2.9572 0.59665	34.648 6.8001 3.1498
161	12.000 41.811 53.855 4.9197	7.50813E+05 37.146 26.878 0.58011	01006. 7.3386 19.976 0.36429	71.000 5.1867 3.6534 0.35785	39.655 4.4695 4.8373
162	12.000 46.875 90.319 5.3465	7.50813E+05 36.378 66.382 0.61864	01200. 9.5836 25.892 0.58232	69.000 8.1426 3.6322 0.49696	41.864 5.8874 3.9175

1975 EDCR 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 25.643 41.586 2.1784	7.50813E+05 44.127 79.568 0.18356	74601. 6.4425 20.641 0.15928	69.000 8.8638 1.4188 0.17398	27.235 4.5432 1.3321
150	12.000 29.774 120.22 2.7643	7.50813E+05 44.752 103.05 0.24265	74801. 10.964 34.057 0.26377	70.000 10.152 1.6538 0.28452	22.108 5.3040 1.6503
151	12.000 40.881 25.622 3.0443	7.50813E+05 45.824 33.871 0.17870	75001. 5.0022 16.192 0.20788	70.000 5.7507 2.8791 0.21385	41.156 4.8248 2.8715
152	12.000 42.632 18.892 3.8945	7.50813E+05 42.941 14.828 0.18615	75202. 4.3465 11.667 0.16719	69.000 3.9507 2.5859 0.18490	38.538 3.4157 2.5858
153	12.000 51.854 69.237 3.1661	7.50813E+05 46.851 37.389 0.38134	75403. 8.2685 34.541 0.21885	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	75604. 7.3892 63.795 0.20259	69.000 6.2425 1.8398 0.45425	56.267 7.9847 1.8671
155	12.000 50.429 52.591 3.4821	7.50813E+05 49.623 83.918 0.21215	75804. 7.2795 29.296 0.31731	68.000 9.7182 1.4608 0.42892	53.376 5.3194 1.9375

1975 EDCR 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	11.000 59.729 209.82 3.5279	7.50814E+05 55.645 115.97 0.82[illegible]	1.11900E+05 14.458 139.85 0.69684	70.000 10.767 3.4204 0.57063	53.868 11.792 3.6855
164	13.000 49.959 318.38 2.4478	7.50814E+05 53.621 211.89 0.63215	1.12101E+05 17.615 187.98 0.65816	70.000 14.529 2.2973 0.51236	40.845 10.391 2.3489
165	13.000 20.768 893.81 1.6659	7.50814E+05 24.492 1138.5 0.29265	1.12302E+05 29.883 260.83 0.50835	69.000 33.623 1.1627 0.40913	14.702 16.158 1.2521
166	13.000 71.983 1323.8 2.2897	7.50814E+05 69.958 1144.9 0.99179	1.12503E+05 36.304 798.11 0.81577	69.000 33.936 1.5715 0.77353	66.496 20.109 1.8927
167	13.000 188.14 983.43 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 1.9788	7.50814E+05 51.786 415.19 0.46113	1.12905E+05 17.659 588.22 0.56337	70.000 20.376 1.6572 0.93820	55.785 24.253 1.6952
169	13.000 97.218 138.13 2.6465	7.50814E+05 85.729 182.87 0.40364	1.13105E+05 11.487 71.436 0.49469	70.000 10.142 2.3296 0.35572	96.211 0.4520 2.4253

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	
170	13.000	7.50814E+05	1.13305E+05	69.000	61.765
	60.460	59.051	25.030	24.422	15.362
	626.91	596.45	235.90	1.0695	2.0950
	2.5330	0.51900	0.56204	0.40369	
171	13.000	7.50814E+05	1.13506E+05	68.000	45.904
	45.927	35.390	16.928	17.041	11.470
	266.55	299.39	131.76	2.1318	2.1657
	2.3745	0.62430	0.63279	0.53470	
172	13.000	7.50814E+05	1.13706E+05	57.000	45.172
	34.149	6.0459	40.693	45.579	31.760
	2371.0	2877.5	1009.2	0.97931	1.1109
	1.6460	0.83300	0.71593	0.55240	
173	13.000	7.50814E+05	1.13907E+05	70.000	5.4011
	9.4707	1.7236	53.700	41.987	36.555
	2892.3	1762.9	1336.2	1.0746	1.5267
	2.1061	0.76713	0.77629	0.76531	
174	13.000	7.50814E+05	1.14108E+05	70.000	15.756
	16.949	11.811	14.929	9.5605	5.4204
	222.00	31.557	29.460	3.0496	3.1274
	3.192	0.47526	0.56635	0.40393	
175	13.000	7.50814E+05	1.14308E+05	77.000	25.599
	25.107	16.690	12.491	14.040	11.056
	156.02	220.23	140.57	2.1817	2.0504
	2.2042	0.63290	0.67122	0.37952	
176	13.000	7.50814E+05	1.14508E+05	69.000	350.05
	356.01	1.1516	30.272	10.033	10.427
	916.30	354.67	339.57	1.3028	1.6109
	1.0657	0.51547	0.39573	0.60091	

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	
184	13.000	7.50814E+05	1.20112E+05	69.000	329.53
	343.60	349.34	17.914	16.770	24.739
	320.92	261.23	612.03	1.4290	1.5339
	1.3615	0.40064	0.42020	0.31291	
185	13.000	7.50814E+35	1.20312E+05	69.000	331.24
	336.41	340.75	42.620	34.221	27.716
	1087.1	1171.1	760.17	0.92404	1.0006
	1.0239	0.53233	0.43476	0.42031	
186	13.000	7.50814E+05	1.20512E+05	70.000	352.02
	357.20	357.27	17.999	15.792	16.609
	323.90	249.40	275.86	2.1913	2.3337
	2.1160	0.84777	0.72040	0.63913	
187	13.000	7.50814E+05	1.20712E+05	71.000	3.9469
	6.3141	0.71766	13.710	10.971	9.2156
	187.95	120.36	84.927	1.9092	2.1653
	1.9633	0.63033	0.62709	0.30799	
188	13.000	7.50814E+05	1.20912E+05	70.000	5.4505
	7.2447	356.61	31.007	31.150	22.766
	1011.7	970.05	510.28	1.5441	1.6610
	1.9244	0.69143	0.69502	0.41026	
189	13.000	7.50814E+05	1.21113E+05	71.000	332.42
	340.42	342.05	15.039	13.463	19.639
	150.67	181.25	385.67	1.7729	1.7145
	1.7384	0.71946	0.59224	0.44100	
190	13.000	7.50814E+05	1.21314E+05	69.000	324.05
	334.00	334.81	37.366	27.105	11.283
	1334.2	739.04	127.31	1.2264	1.2260
	1.9450	0.95055	0.72420	0.37352	

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	
177	13.000	7.50814E+05	1.14708E+05	70.000	327.53
	337.22	352.87	35.636	32.300	21.717
	1269.9	1040.5	471.61	0.81700	0.95642
	1.4739	0.45137	0.52015	0.56433	
178	13.000	7.50814E+05	1.14908E+05	68.000	345.39
	350.20	[illegible]	27.771	30.662	30.670
	771.21	[illegible]	940.65	1.5367	1.6020
	1.9075	0.76644	0.56593	0.59134	
179	13.000	7.50814E+05	1.15109E+05	69.000	44.355
	46.720	47.670	10.353	10.606	16.567
	236.01	346.19	205.34	2.5002	2.4137
	2.7211	0.83154	0.95335	0.83192	
180	13.000	7.50814E+05	1.15310E+05	70.000	39.104
	41.433	7.2446	20.816	26.944	33.922
	932.36	726.01	1150.7	1.7957	1.6972
	1.0266	0.80279	0.72021	0.58925	
181	13.000	7.50814E+05	1.15511E+05	71.000	330.[illegible]
	39.460	4.0729	140.50	152.82	87.[illegible]
	19763.	23354.	7500.9	0.47230	0.33291
	0.61004	0.62039	0.80154	0.60205	
182	13.000	7.50814E+05	1.15712E+05	71.000	49.910
	50.016	24.100	22.900	23.662	14.425
	520.86	959.5[illegible]	200.00	1.4697	1.6969
	1.9960	0.58[illegible]	0.67401	0.69557	
183	13.000	7.50814E+05	1.15912E+05	69.000	330.02
	339.00	330.19	60.334	30.450	20.226
	3[illegible]4.0	1476.4	405.09	0.73940	1.0092
	1.2618	0.72139	0.61416	0.42140	

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	
191	13.000	7.50814E+05	1.21514E+05	68.000	336.53
	4.2414	15.966	62.103	47.652	27.107
	1056.[illegible]	2270.7	739.14	0.76123	0.09667
	1.26[illegible]	0.76975	0.70306	0.45356	
192	13.000	7.50814E+05	1.21700E+05	62.000	37.092
	40.746	14.425	13.281	13.090	16.759
	176.37	192.92	200.06	2.1711	2.1073
	1.8957	0.40675	0.52711	0.40216	

POOR ORIGINAL

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	7.60506E+05	73058.	44.000	46.066
	46.419	46.804	9.2550	7.2810	5.8270
	85.656	51.857	25.260	6.9130	8.5230
	10.486	1.1210	1.0760	0.93200	
2	14.000	7.60506E+05	72259.	44.000	42.922
	45.857	46.455	9.5250	8.0660	7.2790
	98.500	78.684	52.984	6.5320	8.8320
	10.232	1.1350	1.2450	1.2090	
3	14.000	7.60506E+05	72459.	44.000	42.112
	44.806	47.524	7.8240	5.9890	5.6840
	61.219	33.741	32.384	8.6310	10.139
	11.695	1.1970	1.0290	1.1670	
4	14.000	7.60506E+05	72701.	45.000	43.001
	46.285	45.392	7.6310	7.8960	6.5170
	58.236	62.342	42.466	6.0030	8.1930
	10.833	0.91900	1.1100	1.1370	
5	14.000	7.60506E+05	72901.	44.000	46.072
	42.735	46.159	7.5000	6.8080	4.8450
	57.464	36.895	23.472	6.6750	8.1820
	9.5300	0.87400	0.86100	0.88000	
6	14.000	7.60506E+05	73101.	44.000	49.156
	48.485	44.287	8.6710	5.8300	5.3490
	75.193	34.330	28.614	7.1570	8.7520
	10.634	1.0510	0.89500	0.98900	
7	14.000	7.60506E+05	73303.	44.000	44.950
	48.087	44.100	6.6410	5.3810	5.4830
	44.097	35.771	29.100	6.5700	8.0060
	9.9640	0.88900	0.82900	0.93700	

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	7.60506E+05	73503.	44.000	45.687
	44.251	46.511	8.6950	8.0860	7.1120
	75.682	65.379	50.574	6.1510	7.7610
	9.8960	0.93200	1.0970	1.2390	
9	14.000	7.60506E+05	73704.	44.000	45.805
	46.542	46.397	8.4380	6.9400	6.2690
	71.869	48.158	39.306	6.8690	7.9020
	9.9710	1.0150	0.98300	1.1040	
10	14.000	7.60506E+05	73906.	45.000	45.635
	45.757	45.133	7.7930	6.6410	4.9080
	60.729	44.181	24.884	6.4840	7.4530
	9.8910	0.88800	0.87600	0.75080	
11	14.000	7.60506E+05	74106.	44.000	49.567
	45.313	47.566	9.9060	7.6590	5.9310
	98.165	58.662	33.536	5.7160	6.9510
	9.8750	0.98600	0.93200	0.93400	
12	14.000	7.60506E+05	74308.	45.000	48.434
	45.706	44.505	7.8210	6.5940	5.1750
	49.208	43.408	26.781	6.2820	7.5460
	9.9760	0.88600	0.87500	0.86400	
13	14.000	7.60506E+05	74508.	44.000	44.709
	45.216	45.562	8.3440	8.1630	7.2470
	69.621	66.637	52.521	6.4570	7.6020
	9.4440	0.94800	1.0830	1.2000	
14	14.000	7.60506E+05	74708.	44.000	45.364
	45.903	46.213	8.9330	6.8250	6.4120
	79.983	36.298	41.117	6.6500	7.7960
	9.8200	1.0360	0.82000	1.0110	

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	7.60506E+05	74910.	45.000	47.415
	47.146	48.871	8.0160	7.3760	5.2250
	64.250	54.483	27.384	5.2660	6.2980
	7.6510	0.73300	0.81900	0.72100	
16	14.000	7.60506E+05	75111.	45.000	46.932
	49.680	49.671	9.2570	7.7070	5.7100
	85.598	68.633	32.691	7.0100	8.2600
	10.020	1.1290	1.1110	1.0630	
17	14.000	7.60506E+05	75312.	45.000	51.684
	51.804	49.861	9.2930	7.5890	5.2140
	86.364	56.390	27.189	6.7220	8.2710
	9.6550	1.0640	1.0260	0.98900	
18	14.000	7.60506E+05	75513.	45.000	49.748
	47.167	48.935	7.7210	7.1620	5.6360
	59.687	51.381	31.766	6.7930	7.9410
	9.6800	0.93100	0.99600	0.92100	
19	14.000	7.60506E+05	75714.	45.000	51.572
	51.296	52.649	8.9360	7.0360	5.9640
	79.858	49.587	35.567	6.4760	7.7620
	9.4430	1.0810	0.95300	0.97300	
20	14.000	7.60506E+05	75915.	45.000	50.640
	47.881	50.834	8.7200	8.3440	6.7970
	76.172	69.622	46.285	6.8340	6.6630
	8.9730	0.96700	0.97700	1.0350	
21	14.000	7.60506E+05	80115.	45.000	49.900
	49.848	48.181	8.7730	6.2350	4.8370
	76.972	30.981	23.481	6.1360	7.3960
	9.3170	0.99700	0.85500	0.92000	

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	7.60506E+05	80316.	45.000	45.842
	47.019	49.769	8.3810	6.2460	4.3680
	78.240	39.813	19.075	6.4120	7.4740
	9.3260	0.93800	0.81500	0.73400	
23	14.000	7.60506E+05	80517.	45.000	46.387
	45.652	49.254	7.5380	5.8170	4.3750
	56.821	33.842	19.142	6.2990	7.5630
	8.9150	0.91800	0.76600	0.67100	
24	14.000	7.60506E+05	80719.	45.000	47.810
	46.334	47.793	7.2250	6.6360	5.2730
	52.198	44.834	27.887	5.8930	6.9030
	8.2360	0.74100	0.81300	0.76400	
25	14.000	7.60506E+05	80920.	45.000	45.289
	44.913	47.832	7.6890	5.1940	4.9570
	57.695	26.974	24.569	7.0220	8.4210
	9.7750	0.93200	0.76300	0.84100	
26	14.000	7.60506E+05	81121.	45.000	42.115
	41.114	45.620	9.5690	9.1470	7.5670
	91.564	83.668	57.255	5.9100	7.8050
	8.7710	0.99500	1.1610	1.1470	
27	14.000	7.60506E+05	81321.	45.000	47.700
	48.124	49.355	8.3660	7.2000	5.2020
	69.997	53.115	27.095	5.4940	6.6750
	7.9000	0.81900	0.85900	0.74300	
28	14.000	7.60506E+05	81418.	21.000	46.519
	48.761	50.768	7.8270	7.1900	7.6290
	49.384	51.813	58.289	5.4820	6.6300
	7.9490	0.67700	0.84100	1.1220	

EDCR 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
29	15.000	7.60512E+05	71957.	45.000	18.693
	20.369	40.084	48.957	27.950	14.020
	950.35	791.18	196.70	0.50360	1.8170
	2.9760	0.21400	0.35400	0.72000	
30	15.000	7.60512E+05	72150.	45.000	38.260
	37.459	36.242	28.423	17.472	8.0750
	417.88	385.27	78.773	1.9050	4.1110
	6.2360	0.76400	1.3720	1.0000	
31	15.000	7.60512E+05	72359.	45.000	33.006
	32.930	33.089	9.6070	6.7360	5.2370
	93.845	45.379	27.431	2.8230	4.7160
	6.4920	0.33700	0.55000	0.58100	
32	15.000	7.60512E+05	72681.	45.000	32.426
	36.424	38.667	18.822	8.6670	8.8620
	186.44	75.189	64.995	1.7760	5.8060
	.8950	0.31400	0.56000	0.69000	
33	15.000	7.60512E+05	72882.	45.000	37.616
	36.875	38.322	9.6740	8.2990	7.2270
	75.237	68.977	52.169	1.6610	3.6480
	5.8610	0.22900	0.53200	0.61900	
34	15.000	7.60512E+05	73082.	45.000	36.705
	38.149	37.513	13.134	10.402	7.8200
	172.51	108.62	49.394	1.9210	4.1760
	5.8910	0.29400	0.60100	0.61800	
35	15.000	7.60512E+05	73283.	45.000	35.810
	38.176	37.457	11.814	9.3806	9.7350
	121.40	98.102	54.747	2.8220	4.3580
	4.6840	0.43100	0.81900	0.81900	

EDCR 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
43	15.000	7.60512E+05	74818.	45.000	32.452
	35.761	32.612	9.1858	7.3078	5.6548
	84.378	53.396	31.972	2.1558	4.3298
	4.7258	0.42600	0.59100	0.51300	
44	15.000	7.60512E+05	75018.	45.000	38.639
	37.667	29.332	13.141	10.329	6.6908
	172.68	106.66	44.754	1.8298	4.1698
	4.9368	0.38900	0.70100	0.69000	
45	15.000	7.60512E+05	75212.	45.000	22.866
	26.226	24.418	9.1428	7.2838	5.7228
	83.567	53.845	32.758	2.4178	4.9208
	5.7758	0.36500	0.68700	0.62400	
46	15.000	7.60512E+05	75414.	45.000	24.981
	26.612	25.811	11.046	9.7738	7.5378
	122.81	95.629	56.065	2.1248	4.4358
	5.2158	0.36800	0.64200	0.67700	
47	15.000	7.60512E+05	75615.	45.000	19.872
	19.413	18.863	8.6208	5.7188	3.7388
	74.437	32.692	13.013	2.8168	5.4278
	3.9578	0.45500	0.55200	0.62600	
48	15.000	7.60512E+05	75816.	45.000	13.632
	13.849	9.4458	10.386	8.3818	5.8958
	107.66	70.236	25.961	2.2818	4.7218
	5.5418	0.58100	0.62500	0.47200	
49	15.000	7.60512E+05	80017.	45.000	5.7077
	10.152	9.9198	11.046	7.9638	7.5248
	140.34	61.828	56.615	1.9388	4.8288
	4.6168	0.29700	0.76900	0.64700	

EDCR 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
36	15.000	7.60512E+05	73484.	45.000	40.377
	38.771	38.186	13.389	12.795	8.0888
	177.14	163.47	78.653	1.9568	3.9518
	4.9538	0.43300	0.98400	0.76500	
37	15.000	7.60512E+05	73684.	45.000	28.864
	31.343	39.423	9.9158	5.8768	6.4818
	98.532	34.523	42.682	2.8048	4.1798
	4.4418	0.27400	0.58600	0.52700	
38	15.000	7.60512E+05	73886.	45.000	27.294
	31.872	34.177	8.7758	6.3058	4.8978
	77.004	39.755	16.787	2.1798	4.6738
	5.5328	0.38100	0.45600	0.40300	
39	15.000	7.60512E+05	74086.	45.000	29.985
	34.867	35.902	6.9358	5.3268	6.6738
	48.898	28.364	44.531	2.3918	4.9458
	5.8058	0.31400	0.43400	0.67900	
40	15.000	7.60512E+05	74287.	45.000	32.121
	31.582	34.533	8.2098	5.9668	5.8638
	68.781	35.598	34.369	2.3428	4.8178
	5.1848	0.31400	0.49800	0.59600	
41	15.000	7.60512E+05	74489.	45.000	32.511
	35.965	36.933	8.6128	7.2048	5.2258
	74.159	51.891	27.365	2.4768	4.8238
	5.5448	0.37200	0.54000	0.54100	
42	15.000	7.60512E+05	74618.	45.000	30.429
	38.165	38.181	10.868	6.5438	5.8428
	181.36	42.904	25.418	1.9078	4.4428
	5.0578	0.37100	0.51200	0.56800	

EDCR 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
50	15.000	7.60512E+05	80218.	45.000	9.7998
	9.8248	2.9378	11.896	8.7888	5.5428
	123.13	77.887	38.729	2.2458	4.9168
	5.4388	0.46500	0.56500	0.45400	
51	15.000	7.60512E+05	80420.	45.000	8.12500
	1.7428	2.1778	11.898	7.9418	6.8818
	123.80	63.852	36.575	2.2868	4.6708
	5.5248	0.64200	0.94500	0.72800	
52	15.000	7.60512E+05	80621.	45.000	18.913
	9.5198	350.27	9.4408	6.6598	7.4478
	89.118	44.3.	55.457	2.2048	4.9788
	5.2758	0.40600	0.63600	0.84500	
53	15.000	7.60512E+05	80821.	45.000	353.54
	352.28	346.35	17.883	11.935	9.9388
	382.18	148.86	98.768	1.5008	3.5408
	3.4988	0.38300	0.67700	0.63100	
54	15.000	7.60512E+05	81021.	45.000	329.02
	332.94	333.31	18.646	8.7508	5.9318
	113.34	77.229	35.172	1.4608	3.1418
	2.5908	0.22300	0.45300	0.25000	
55	15.000	7.60512E+05	81221.	45.000	343.82
	341.86	345.22	13.883	11.789	11.677
	169.87	138.97	136.34	1.4388	3.8478
	3.8458	0.32000	0.58500	0.63000	
56	15.000	7.60512E+05	81421.	45.000	342.84
	346.47	350.12	9.6638	6.7558	5.9138
	93.388	45.631	34.952	1.6628	3.7838
	4.0958	0.31800	0.51500	0.50000	

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 DSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
57	15.000 352.56 79.224 4.2750	7.68512E+05 354.25 49.385 0.41200	81621. 8.9818 44.451 0.47700	45.000 7.8278 1.9120 0.49300	350.48 6.6670 4.1650
58	15.000 357.24 65.643 4.4370	7.68512E+05 1.3690 41.872 0.26400	81802. 8.7458 36.048 0.30100	30.000 6.4898 1.9518 0.29200	354.30 6.8708 4.1978
59	16.000 326.86 102.33 1.9500	7.68518E+05 341.41 107.17 0.32700	71758. 10.116 123.45 0.38100	46.000 10.352 1.9638 0.29400	328.84 11.113 1.9768
60	16.000 329.58 78.255 2.6148	7.68519E+05 348.75 81.488 0.38200	71959. 8.8238 69.291 0.36700	47.000 9.8238 2.3178 0.66200	326.18 9.3968 2.4688
61	16.000 350.82 82.139 3.8148	7.68518E+05 356.54 84.364 0.43400	72159. 9.8628 66.119 0.39700	47.000 9.1868 2.3798 0.33600	352.81 8.1318 2.5328
62	16.000 11.834 288.97 2.6758	7.68518E+05 28.691 175.23 0.24000	72408. 14.176 144.64 0.31100	47.000 13.238 2.3418 0.43500	5.2468 12.837 2.5098
63	16.000 35.724 157.91 3.1468	7.68518E+05 44.814 73.586 0.46900	72601. 12.566 36.753 0.32500	47.000 8.5798 2.3178 0.33300	39.874 6.0628 2.4488

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	16.000 341.382 279.45 1.4658	7.68518E+05 39.318 100.48 0.98888	74206. 16.717 129.23 0.81388	47.000 13.431 2.9648 0.72788	33.995 11.368 3.1218
72	16.000 30.876 114.67 3.2388	7.68518E+05 33.658 73.631 0.53888	74406. 10.789 63.388 0.43588	47.000 8.5018 2.9588 0.42188	48.451 7.9628 3.8178
73	16.000 35.833 108.37 3.8728	7.68518E+05 30.231 73.151 0.54888	74607. 10.418 54.898 0.44888	47.000 8.5538 3.1258 0.45388	36.286 7.4898 3.3628
74	16.000 34.014 75.987 4.2038	7.68518E+05 33.972 55.676 0.68888	74807. 8.7128 32.228 0.58388	47.000 7.4628 3.5698 0.45188	33.934 5.6768 4.0878
75	16.000 28.178 73.426 4.4178	7.68518E+05 33.358 37.125 0.51888	75007. 8.5558 23.188 0.39588	47.000 6.8938 3.7878 0.48888	28.656 4.8158 4.1338
76	16.000 32.636 95.828 4.8888	7.68518E+05 35.812 64.882 0.55688	75207. 9.7098 47.589 0.59788	47.000 9.2098 3.3398 0.58488	31.529 6.8938 3.6648
77	16.000 43.959 98.868 4.3838	7.68519E+05 42.888 78.867 0.64188	75488. 9.9458 48.181 0.55788	47.000 8.3718 3.6678 0.48988	45.619 6.3338 3.9848

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 DSD	NUM PTS 10M DSD 4M SPD 30M SSD	4M DIR 30M DSD 10M SPD
64	16.000 32.763 90.862 3.8588	7.68518E+05 44.842 55.317 0.41488	72881. 9.9838 53.923 0.36788	47.000 7.4368 2.6898 0.48888	38.471 7.3438 2.7468
65	16.000 25.731 286.47 2.3768	7.68518E+05 32.814 174.46 0.45488	73882. 16.925 166.18 0.38888	47.000 13.288 1.9858 0.42488	21.855 12.888 2.1128
66	16.000 11.318 144.23 2.2278	7.68518E+05 19.715 117.22 0.23788	73282. 12.818 338.79 0.28288	47.000 10.827 1.8978 0.38688	11.891 10.188 1.9238
67	16.000 3.9758 358.26 2.4818	7.68518E+05 18.962 363.47 0.32488	73483. 18.795 337.98 0.17588	47.000 19.865 1.7888 0.38388	4.4148 18.384 1.8288
68	16.000 27.857 383.93 2.6278	7.68518E+05 27.166 271.83 0.59888	73683. 19.594 281.25 0.57288	47.000 16.463 1.9898 0.34388	23.377 14.198 2.3388
69	16.000 28.883 79.426 2.9888	7.68518E+05 26.382 56.689 0.43388	73883. 8.9128 186.18 0.32788	47.000 7.5248 2.6978 0.48888	15.348 18.381 2.6488
70	16.000 37.273 232.18 2.7868	7.68518E+05 42.428 187.98 0.56288	74885. 15.278 148.64 0.58188	46.888 13.783 2.2198 0.57188	36.146 11.859 2.3728

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 38.537 134.88 4.3398	7.68518E+05 33.919 78.214 0.68488	75689. 11.579 22.934 0.57288	47.000 8.8448 3.6888 0.35788	26.647 4.7898 3.9788
79	16.000 29.728 63.612 4.3628	7.68518E+05 35.344 29.882 0.47488	75889. 7.9888 23.962 0.39488	47.000 5.4668 3.9258 0.37888	29.398 4.2978 4.1328
88	16.000 28.577 62.396 5.2648	7.68518E+05 32.226 23.619 0.52288	88818. 7.8958 15.129 0.41888	47.000 4.8688 4.1848 0.32488	28.461 3.8588 4.7228
81	16.000 23.161 67.525 4.9568	7.68518E+05 38.651 48.916 0.58888	88218. 8.2178 19.185 0.46288	47.000 6.3978 4.3778 0.36488	19.738 4.3888 4.8318
82	16.000 22.488 87.764 4.6888	7.68518E+05 28.821 83.759 0.69788	88418. 9.3688 38.523 0.62488	47.000 9.1548 3.5668 0.68588	22.623 6.2878 4.8698
83	16.000 22.486 97.897 4.5728	7.68518E+05 23.861 78.779 0.58788	88618. 9.8948 54.792 0.49288	47.000 8.8768 3.9918 0.37988	22.377 7.4828 4.2678
84	16.000 12.847 48.646 4.3628	7.68518E+05 18.628 22.368 0.15488	88811. 6.3758 11.464 0.28688	47.000 4.7318 4.8888 0.29388	11.764 3.3868 4.3868

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 4.3438	7.60518E+05 28.616 47.839 0.36300	61811. 8.1550 26.954 0.38500	47.000 6.8568 5.6980 0.33600	24.351 5.1920 4.0830
86	16.000 34.514 62.566 4.4960	7.60518E+05 32.742 57.390 0.58100	61211. 7.5188 43.371 0.52900	47.000 7.5760 4.8120 0.58400	35.875 6.5060 4.3100
87	16.000 33.731 2.2736 4.5330	7.60518E+05 36.063 6.8268 0.23600	61216. 1.5800 3.2568 0.18900	2.0000 2.4558 4.5758 0.12500	26.400 1.0848 4.4500
91	17.000 12.260 18.517 4.4128	7.60521E+05 36.366 0.0640 0.10000E-02	55259. 3.2438 2.1388 7.20000E-02	47.000 2.8406 3.0578 0.12900	4.5600 1.4068 2.5388
89	17.000 0.0598 4.2368 4.5218	7.60521E+05 34.434 12.181 0.10100	55500. 2.0588 3.5028 6.09999E-02	47.000 3.4796 2.2678 0.11700	355.31 1.6718 2.6568
98	17.000 13.748 17.495 4.4516	7.60521E+05 30.411 12.830 0.19900	55701. 4.1838 5.7638 0.19100	47.000 3.4698 1.9628 0.21600	1.0898 2.4018 2.4658
91	17.000 30.379 159.57 3.2178	7.60521E+05 53.258 68.878 0.35200	55901. 12.632 123.11 0.37200	46.000 8.2518 0.96900 0.47200	22.969 11.896 1.6148

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 2.2598	7.60521E+05 12.871 31.784 9.19999E-02	61507. 3.4528 7.5538 0.16800	46.000 5.6318 1.5378 0.27100	314.25 2.7408 1.7258
100	17.000 329.61 3.5648 2.4958	7.60521E+05 0.9668 55.127 5.30000E-02	61708. 1.0888 2.2928 0.20100	47.000 7.4258 1.5608 0.13000	313.13 1.5118 1.6828
101	17.000 329.73 41.141 2.8748	7.60521E+05 12.394 141.12 0.14900	61909. 6.4148 0.9668 0.27400	44.000 11.879 1.3778 0.13000	316.63 2.8398 1.4118
102	17.000 342.74 6.5768 2.8648	7.60521E+05 13.887 0.8348 5.10000E-02	62110. 2.6418 13.914 0.15600	45.000 2.9728 1.9428 0.80000E-02	321.94 3.7388 1.1868
103	17.000 346.59 55.142 1.9598	7.60521E+05 7.5598 12.756 0.68000E-02	62310. 7.4268 2.3868 0.19788	45.000 3.5728 0.62188 7.20000E-02	322.42 1.5188 1.1688
104	17.000 328.83 2143.8 1.3578	7.60521E+05 4.7419 244.27 0.13200	62511. 46.381 2.7148 0.22388	44.000 15.629 0.37888 0.33888	296.51 1.6478 0.52988
105	17.000 329.93 90.648 1.2118	7.60521E+05 6.4138 384.12 0.13688	62712. 9.9328 4.7698 0.21188	46.000 17.439 0.44388 0.38988	193.47 2.1848 0.43988

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 82.861 360.8 2.2098	7.60521E+05 73.213 700.85 0.28100	60102. 17.321 15.086 0.23800	47.000 26.609 1.0008 0.33700	107.59 3.9968 1.0628
93	17.000 93.198 114.81 2.2498	7.60521E+05 60.922 325.87 0.31388	60303. 18.678 19.988 0.21788	45.000 18.052 1.3858 0.22588	98.649 4.4618 1.1928
94	17.000 188.33 46.582 2.3628	7.60521E+05 83.921 69.987 0.38188	60503. 6.9788 223.34 0.43488	47.000 8.3668 2.2528 0.13888	111.83 14.945 2.6238
95	17.000 92.379 254.11 1.7518	7.60521E+05 67.328 161.49 0.35888	60704. 15.941 236.83 0.56988	46.000 12.788 0.98288 0.41788	111.53 15.363 1.5988
96	17.000 25.355 387.15 1.5118	7.60521E+05 28.252 114.74 1.00000E-02	60905. 17.526 47.941 0.15988	46.000 18.712 0.36888 0.14988	98.684 6.9248 0.76688
97	17.000 37.883 217.77 2.0298	7.60521E+05 47.262 28.753 0.10588	61105. 14.757 28.285 9.38888E-02	46.000 5.3628 0.75188 0.18788	51.917 5.3118 1.1338
90	17.000 351.24 1023.6 1.7478	7.60521E+05 33.959 297.6a 0.16788	61306. 31.994 99.548 0.18688	46.000 17.253 0.83788 0.23788	339.62 9.9778 1.1858

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	17.000 339.63 68.376 2.1418	7.60521E+05 6.8788 9.4988 0.14488	62912. 7.7788 5.4428 0.11788	46.000 3.8818 1.8688 0.24388	304.68 2.3338 1.8888
107	17.000 332.78 23.138 2.5328	7.60521E+05 5.9988 116.47 0.12288	63114. 4.8898 0.5738 0.22688	46.000 10.792 1.3298 6.20000E-02	311.34 2.9298 1.3888
108	17.000 326.34 84.296 2.2478	7.60521E+05 5.4518 30.469 0.13888	63313. 9.1818 12.299 0.16288	46.000 5.5288 1.2838 0.15688	292.81 3.5878 1.5168
109	17.000 314.61 7.6818 1.9398	7.60521E+05 357.51 *1.838 7.70000E-02	63513. 2.7728 10.288 7.60000E-02	47.000 3.3228 1.8978 0.18188	277.70 3.2878 1.3818
110	17.000 321.16 28.756 2.7988	7.60521E+05 5.5278 43.466 0.13188	63715. 5.1738 31.864 0.20488	46.000 6.5938 1.1858 0.11188	287.24 5.5748 1.5958
111	17.000 347.28 412.11 2.7928	7.60521E+05 21.589 31.646 0.15688	63915. 20.388 7.9418 0.34788	46.000 5.6258 0.48888 7.79999E-02	314.89 2.8188 1.5558
112	17.000 349.32 27.238 2.9548	7.60521E+05 21.198 11.158 0.12588	64117. 5.2198 11.828 0.20388	47.000 3.3458 0.85888 0.16788	342.92 3.3286 2.1738

EDCR 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	7.68521E+05	64310.	47.000	330.56
	344.21	13.377	5.9500	3.9230	3.5070
	35.581	15.393	12.302	1.1370	2.1020
	3.3400	9.00000E-02	0.32600	0.13200	
114	17.000	7.68521E+05	64510.	47.000	328.10
	331.95	9.8850	8.6930	4.9850	2.5840
	75.568	24.953	6.6760	1.2710	1.7970
	3.2600	0.18900	0.13900	0.10100	
115	17.000	7.68521E+05	64640.	35.000	334.32
	339.53	16.407	8.6200	7.5470	1.1510
	74.297	56.962	1.3240	0.87300	1.4340
	2.9320	0.12900	0.10500	8.71000E-02	
116	18.000	7.68623E+05	53780.	46.000	54.871
	48.155	38.340	7.8250	6.7070	6.5370
	49.35	44.950	42.730	3.6890	4.7310
	6.2470	0.42300	0.54000	0.75500	
117	18.000	7.68623E+05	53902.	47.000	46.813
	42.674	36.000	9.2890	6.3050	5.6970
	84.782	39.748	32.347	4.3060	5.3870
	6.5060	0.66700	0.60400	0.63000	
118	18.000	7.68623E+05	54102.	46.000	42.173
	43.809	38.453	7.6170	6.7420	5.4850
	50.820	45.459	30.000	4.1310	5.8190
	7.0100	0.56000	0.68100	0.63200	
119	18.000	7.68623E+05	54302.	46.000	49.151
	49.546	46.174	8.7540	6.1340	5.0860
	76.629	37.627	25.662	3.7970	4.5090
	5.7670	0.57500	0.49200	0.58900	

EDCR 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	7.68623E+05	55910.	46.000	51.297
	48.029	39.853	9.2870	7.0550	5.3500
	84.766	49.751	20.780	4.1650	5.1940
	7.6120	0.62300	0.62500	0.74600	
128	18.000	7.68623E+05	56110.	47.000	45.845
	42.390	37.834	9.0590	6.8780	3.8380
	82.865	47.389	14.670	4.7560	5.5940
	8.1870	0.74400	0.68800	0.56800	
129	18.000	7.68623E+05	56311.	47.000	43.776
	42.783	36.872	7.0800	6.2170	3.6660
	80.999	38.657	13.440	4.8070	5.7590
	7.9540	0.58600	0.63000	0.55600	
130	18.000	7.68623E+05	56511.	47.000	39.867
	38.739	36.545	8.1750	5.8960	4.7110
	66.832	34.694	22.190	4.4410	5.2630
	7.3410	0.66200	0.57300	0.68900	
131	18.000	7.68623E+05	56711.	47.000	40.285
	39.815	33.173	6.4410	5.8680	3.4890
	61.406	34.342	17.619	5.2810	6.2240
	8.0550	0.59200	0.65000	0.58500	
132	18.000	7.68623E+05	56912.	47.000	42.916
	42.358	37.679	9.8810	5.8270	3.9520
	82.457	33.953	15.622	4.2470	5.2540
	7.1230	0.68100	0.53900	0.51000	
133	18.000	7.68623E+05	61114.	47.000	46.156
	44.490	36.709	7.6800	6.6850	5.6430
	59.106	43.620	31.847	3.9270	4.9110
	6.6130	0.52500	0.56800	0.60600	

EDCR 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	7.68623E+05	54503.	46.000	49.360
	50.321	46.655	7.7220	5.2800	4.0710
	59.623	27.635	16.569	3.1410	3.9330
	5.8070	0.41100	0.34500	0.41200	
121	18.000	7.68623E+05	54705.	46.000	53.781
	50.449	42.994	9.8420	5.8680	4.6510
	81.756	34.344	21.631	3.6810	4.5100
	6.2650	0.58700	0.47400	0.52300	
122	18.000	7.68623E+05	54906.	46.000	51.557
	52.275	47.369	7.4460	5.7460	5.5320
	55.442	33.811	30.680	3.8540	3.9580
	5.7530	0.39500	0.39200	0.56700	
123	18.000	7.68623E+05	55107.	46.000	52.103
	50.647	44.195	7.8190	5.6300	4.4590
	49.251	31.709	19.861	3.1330	4.0810
	5.6568	0.38700	0.37700	0.44400	
124	18.000	7.68623E+05	55300.	46.000	51.411
	49.633	45.367	8.8340	5.7220	3.8850
	64.541	32.738	14.482	3.1300	3.9368
	5.7520	0.40800	0.38000	0.38100	
125	18.000	7.68623E+05	55500.	46.000	48.905
	45.042	44.346	6.4400	4.5300	4.2100
	41.562	28.591	17.721	3.1640	4.0850
	5.7300	0.34900	0.32400	0.42300	
126	18.000	7.68623E+05	55700.	46.000	47.522
	47.691	46.829	7.6150	5.9070	4.2310
	57.901	35.844	17.905	3.3720	4.0600
	6.2260	0.43500	0.41200	0.45700	

EDCR 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	7.68623E+05	61315.	47.000	43.090
	39.411	35.144	8.2800	5.8850	3.3590
	60.603	34.635	11.286	4.4170	5.4460
	7.6490	0.64500	0.56100	0.47500	
135	18.000	7.68623E+05	61516.	47.000	36.156
	35.746	29.845	8.9590	7.7470	5.5450
	68.271	68.015	38.744	4.8570	5.9120
	8.3760	0.74600	0.89600	1.8510	
136	18.000	7.68623E+05	61716.	47.000	31.311
	28.261	26.197	9.8870	8.2640	4.7570
	96.169	68.326	18.502	4.7360	5.5070
	7.2190	0.69400	0.71400	0.61000	
137	18.000	7.68623E+05	61917.	47.000	24.738
	24.619	20.313	7.4050	6.5530	5.7900
	54.835	42.937	33.526	4.6040	5.5580
	7.5320	0.79100	0.94700	1.1320	
138	18.000	7.68623E+05	62110.	47.000	17.647
	16.955	16.525	10.941	8.3000	6.2760
	119.70	70.353	39.392	4.2800	5.8130
	5.8750	1.0200	1.2040	1.2700	
139	18.000	7.68623E+05	62319.	47.000	27.141
	23.701	19.607	8.7710	8.9390	6.9440
	76.931	79.097	40.213	2.9930	3.8420
	5.9370	0.46100	0.51700	0.94500	
140	18.000	7.68623E+05	62520.	47.000	34.002
	30.850	25.853	9.3850	6.1450	3.8700
	86.664	37.756	15.837	4.8940	5.1170
	7.3900	0.67000	0.64600	0.48000	

EDCR 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
141	19.000 25.109 148.90 0.8120	7.68613E+05 17.266 111.89 0.96300	62731. 12.109 59.583 0.99300	47.000 10.579 5.1570 0.59100	27.959 7.6540 6.1770
142	19.000 16.962 107.85 7.4500	7.68623E+05 15.293 57.418 0.93100	62927. 10.595 32.119 1.0750	48.000 7.5770 4.6160 1.1020	19.371 5.6490 5.4540
143	19.000 19.528 77.806 6.4050	7.686_3E+05 19.565 35.568 0.55100	63124. 8.0210 26.285 0.47500	47.000 5.9640 4.1000 0.69000	19.650 5.1270 5.8740
144	19.000 14.240 70.012 6.1520	7.68623E+05 9.5770 44.395 0.53700	63325. 6.4159 31.459 0.48700	47.000 6.6638 3.6098 0.57500	14.274 5.6030 4.3500
145	19.000 18.346 94.556 7.7650	7.68623E+05 5.3568 42.576 0.71800	63432. 9.7268 11.375 0.83700	26.000 6.8900 4.1140 0.69300	9.8529 3.8730 5.1180
146	19.000 10.675 89.482 7.8438	7.68629E+05 26.874 41.858 0.25100	43859. 9.4556 4.3098 0.45200	47.000 6.4709 1.5598 0.10100	19.123 2.8756 4.1780
147	19.000 16.213 54.340 6.4540	7.68623E+05 26.375 37.625 0.16600	43981. 7.3728 9.3958 0.31100	47.000 5.2568 1.3648 0.22700	14.404 2.0970 3.4080

EDCR 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
148	19.000 21.171 74.981 6.2180	7.68629E+05 30.978 45.826 9.14900	43582. 6.6556 4.6478 0.28600	47.000 7.0598 1.3118 0.27200	18.982 2.1568 3.8378
149	19.000 27.376 57.393 5.5400	7.68629E+05 34.141 26.917 0.12300	43700. 7.5768 9.5058 0.23600	47.000 5.1358 1.8076 0.26900	26.771 3.8538 2.5598
150	19.000 25.657 120.63 5.2500	7.68629E+05 35.691 74.654 0.16500	43903. 11.542 34.604 0.32400	47.000 8.6858 1.8128 0.40200	22.519 5.8898 2.4560
151	19.000 19.184 56.066 4.4950	7.68629E+05 37.665 49.735 0.16150	44105. 9.9618 21.312 0.31700	47.000 7.0528 0.79588 0.38000	17.316 4.6178 1.9358
152	19.000 38.765 98.238 4.3528	7.68629E+05 52.538 37.616 0.11600	44505. 9.9158 17.181 0.18800	45.000 6.1338 0.66008 0.31100	47.318 4.1488 1.5978
153	19.000 41.951 61.551 4.5328	7.68629E+05 56.269 36.171 9.98000E-02	44587. 7.6458 14.175 0.17300	46.000 6.8148 0.73588 0.29300	35.166 3.7658 1.6898
154	19.000 45.762 37.568 4.5128	7.68629E+05 56.314 61.985 6.78000E-02	44709. 6.1298 15.758 0.24100	45.000 7.8758 0.87088 0.34300	26.128 3.9768 1.7338

EDCR 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
155	19.000 65.587 11.645 0.7730	7.68629E+05 59.157 34.646 5.86000E-02	44909. 5.3838 14.831 0.17200	45.000 5.0868 0.84388 0.32988	4.379 3.7468 1.8358
156	19.000 68.595 122.44 4.8308	7.68629E+05 59.576 43.226 0.11588	45111. 11.865 32.637 0.22588	46.000 6.5758 0.76388 0.44888	27.848 5.7138 1.5228
157	19.000 46.640 29.648 3.4218	7.68629E+05 59.578 56.607 6.68088E-02	45313. 5.3588 22.346 0.16788	47.000 7.5248 0.93688 0.38688	3.1158 4.7178 1.2098
158	19.000 41.367 78.492 3.5098	7.68629E+05 56.921 90.728 7.68088E-02	45512. 8.6688 25.333 0.23488	46.000 9.5258 0.93088 0.33088	18.538 5.8338 1.5568
159	19.000 27.985 384.54 5.5418	7.68629E+05 52.918 429.38 0.13888	45713. 17.451 29.967 0.41188	47.000 28.728 1.8158 0.39388	355.43 9.4748 1.7118
160	19.000 350.92 16.633 3.1798	7.68629E+05 48.577 57.369 0.13588	45914. 4.8788 39.195 0.33688	47.000 7.6148 1.1318 0.54888	339.89 6.2618 2.3788
161	19.000 6.6188 19.909 3.7958	7.68629E+05 47.884 59.688 0.18688	50114. 4.4638 59.822 0.17388	47.000 9.3428 1.3068 0.50488	346.66 7.7348 2.3598

EDCR 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
162	19.000 355.46 72.593 4.2678	7.68629E+05 26.379 96.864 0.22488	50315. 8.5088 92.625 0.26188	47.000 9.0428 1.2618 0.47088	337.66 9.8818 2.9668
163	19.000 357.88 39.995 4.7888	7.68629E+05 18.693 39.548 0.24588	50515. 6.2538 57.885 0.31188	47.000 6.2858 1.4518 0.54588	344.59 7.6858 4.8228
164	19.000 353.53 68.167 4.6858	7.68629E+05 16.744 18.474 6.17588	50716. 8.2568 22.758 0.35188	47.000 4.2968 1.1368 0.25688	344.13 4.7788 3.7988
165	19.000 355.46 52.868 4.5318	7.68629E+05 19.894 35.356 0.18888E-02	50917. 7.2168 31.515 0.17888	47.000 5.9468 1.2788 0.33588	356.76 5.6148 3.4358
166	19.000 7.4798 68.853 4.4288	7.68629E+05 33.162 45.841 9.48988E-02	51117. 8.9928 32.282 0.15488	47.000 4.7718 1.8788 0.37283	2.4148 5.6828 3.1568
167	19.000 23.949 159.51 4.3628	7.68629E+05 36.692 85.675 0.16188	51318. 12.289 19.179 0.31388	46.000 6.7598 0.67888 0.38588	38.752 4.5798 2.4888
168	19.000 24.421 33.531 4.2158	7.68629E+05 35.766 17.887 8.78868E-02	51518. 5.7918 12.751 0.16588	48.000 4.2958 0.92888 0.22588	34.273 3.5718 2.3288

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	10.000 19.796 13.914 4.2368	7.68629E+05 25.711 14.559 4.78000E-02	51720. 3.2170 0.9760 0.11200	46.000 3.0160 0.99000 0.21200	24.760 2.9568 2.5418
170	19.000 21.195 13.324 4.0898	7.68629E+05 40.679 9.1496 3.68000E-02	51920. 3.6560 0.1338 9.96000E-02	47.000 3.8250 0.99598 0.13498	31.333 2.8528 2.4670
171	19.000 14.625 20.955 3.8749	7.68629E+05 54.121 9.4738 6.58000E-02	52120. 5.1918 5.5168 0.15108	47.000 3.8700 1.0338 0.17398	12.334 2.3498 2.4678
172	19.000 5.6758 28.239 4.1648	7.68629E+05 38.545 17.566 5.28000E-02	52321. 4.5108 12.289 0.11288	47.000 4.2338 1.1978 0.25598	1.7968 3.5068 2.7208
173	19.000 358.64 16.748 4.3968	7.68629E+05 28.219 17.723 9.48000E-02	52521. 4.6528 16.786 0.18508	47.000 4.2168 1.2738 0.29098	351.66 4.8978 3.9688
174	19.000 3.6688 17.311 4.4728	7.68629E+05 39.635 21.612 2.58000E-02	52537. 4.1638 4.9248 5.58000E-02	6.0000 4.6308 1.2738 0.12598	355.53 2.2198 5.8458
175	28.000 45.163 38.487 6.6488	7.68638E+05 47.256 28.088 0.19688	44059. 6.1978 3.8648 0.30048	47.000 5.3678 1.7988 0.13488	46.926 1.7668 4.1238

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	28.000 53.391 71.595 7.2648	7.68638E+05 51.742 24.486 0.27008	50288. 8.4058 1.2818 0.35588	46.000 4.9408 1.0488 0.15688	53.683 1.1328 4.2428
184	28.000 54.074 41.681 7.7078	7.68638E+05 51.277 30.596 0.22498	50489. 6.4568 1.6148 0.48708	46.000 5.5138 2.0578 0.17898	51.948 1.2788 4.0828
185	28.000 53.018 68.375 7.9618	7.68638E+05 52.938 46.788 0.38588	50618. 8.2698 7.4648 0.52208	46.000 6.8348 2.3958 0.33098	55.321 2.7208 5.0848
186	28.000 61.753 71.445 7.0928	7.68638E+05 57.977 41.198 0.26108	50818. 8.4538 13.598 0.44788	46.000 8.4198 1.9738 0.38888	63.252 3.6878 4.6148
187	28.000 58.213 52.868 6.9298	7.68638E+05 53.625 59.344 0.25888	51011. 7.2178 18.373 0.55488	46.000 7.7838 1.3788 0.48388	54.749 3.2218 4.2528
188	28.000 45.172 98.534 6.7358	7.68638E+05 47.865 34.162 0.34788	51212. 9.5158 15.516 0.48488	47.000 5.8458 2.8918 0.46588	44.689 3.9338 4.7378
189	28.000 39.294 46.724 6.2568	7.68638E+05 43.638 32.498 0.21888	51413. 6.9088 18.884 0.41488	47.000 5.6978 1.8158 0.47588	38.822 4.3368 4.2588

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	28.000 42.956 26.553 6.3828	7.68638E+05 47.501 16.253 0.15788	44081. 5.1928 3.1798 0.20888	47.000 4.8318 1.7688 0.19388	41.586 1.7838 4.6668
177	28.000 44.375 28.377 6.1268	7.68638E+05 48.196 23.146 0.14588	45008. 5.3278 5.4238 0.38188	46.000 4.8118 1.5508 0.26388	43.706 2.5268 3.6338
178	28.000 39.651 43.887 6.4158	7.68638E+05 43.918 28.351 0.17988	45281. 6.9238 3.8178 0.36788	47.000 4.5148 1.5358 0.15988	35.318 1.7378 3.9488
179	28.000 37.628 47.638 6.5758	7.68638E+05 43.745 16.296 0.17888	45402. 6.9618 2.9128 0.28488	47.000 4.8378 1.6478 0.19278	31.636 1.7868 4.1248
180	28.000 37.231 38.863 6.7248	7.68638E+05 44.258 11.938 0.15788	45603. 6.8718 2.8588 0.22988	47.000 3.4558 1.6218 0.16888	32.445 1.4358 4.1838
181	28.000 41.306 48.484 7.1788	7.68638E+05 45.365 17.827 0.26888	45804. 5.3638 0.94388 0.32188	47.000 4.2228 1.8268 0.12298	39.555 0.97188 4.5888
182	28.000 46.959 41.247 7.1598	7.68638E+05 47.244 21.163 0.28688	50006. 6.4228 1.9858 0.35488	47.000 6.6558 1.8388 0.17988	45.154 1.4898 4.4898

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	28.000 37.668 29.816 .6718	7.68638E+05 43.893 44.688 0.21688	51613. 8.8858 36.422 0.48788	47.000 6.6858 1.4198 0.68888	35.278 6.8358 3.4148
191	28.000 33.852 72.787 4.7928	7.68638E+05 42.567 44.373 0.17888	51814. 8.5278 34.868 0.31688	47.000 6.6618 1.3858 0.48588	34.335 5.8368 3.8758
192	28.000 38.378 58.827 4.6788	7.68638E+05 39.732 57.834 0.16188	52014. 7.8738 22.847 0.34888	47.000 7.5528 1.3828 0.38188	24.177 4.7888 3.1268
193	28.000 29.531 78.346 4.6558	7.68638E+05 41.406 44.478 0.17988	52215. 8.3078 33.887 0.32788	47.000 6.6698 1.3878 0.47488	25.581 5.7458 3.1468
194	28.000 31.398 61.422 4.4278	7.68638E+05 40.965 45.312 0.14688	52415. 9.8238 26.797 0.38688	47.000 6.7318 1.1618 0.38388	27.884 5.1778 2.7548
195	28.000 31.365 54.313 4.7648	7.68638E+05 46.509 46.673 0.12688	52615. 7.3788 28.618 0.38288	47.000 6.8328 1.2478 0.43588	25.282 5.1598 2.8528
196	28.000 36.296 69.385 4.5718	7.68638E+05 49.811 58.784 0.11788	52816. 8.3388 28.275 0.37388	47.000 7.1278 1.1058 0.42288	27.204 5.3178 2.7338

EDCR 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	7.68638E+05	53817.	47.000	24.784
	39.864	55.447	8.3130	6.9530	5.4730
	69.296	49.346	29.554	0.99100	2.3600
	4.5290	0.12500	0.27500	0.46200	
198	20.000	7.68638E+05	53210.	47.000	21.914
	32.118	54.584	9.9710	9.6250	5.5750
	99.420	32.673	31.882	0.89600	2.1380
	4.4040	0.13100	2.33000	0.41700	
199	20.000	7.68638E+05	53418.	47.000	18.534
	24.367	51.795	5.1070	5.7900	5.4640
	26.900	33.584	29.059	1.1550	2.4020
	3.9600	0.11000	0.30100	0.38000	
200	20.000	7.68638E+05	53619.	47.000	359.00
	10.488	41.351	3.3720	4.5810	6.0040
	11.370	20.261	36.046	1.2920	2.8700
	3.7090	4.78000E-02	0.10600	0.37600	
201	20.000	7.68638E+05	53819.	47.000	351.54
	2.6120	32.667	4.3000	4.4000	6.3350
	10.403	19.427	40.133	1.3240	2.8450
	3.5140	5.98000E-02	0.00000E-02	0.29700	
202	20.000	7.68639E+05	54020.	47.000	344.90
	357.72	22.764	4.5400	4.1200	7.8400
	24.401	16.574	49.676	1.1260	2.7500
	3.8310	0.12000	0.11500	0.24600	
203	20.000	7.68638E+05	54200.	39.000	342.75
	356.81	12.225	4.1630	6.8430	5.9990
	17.490	36.516	35.985	0.92000	2.2890
	2.5770	0.20000E-02	0.11300	0.17100	

EDCR 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	7.68715E+05	50008.	46.000	341.76
	4.5640	26.226	10.306	9.2580	5.9160
	107.96	87.571	33.820	1.1250	2.1860
	3.4890	0.14600	0.13000	0.33500	
212	21.000	7.68715E+05	50200.	47.000	338.44
	4.7700	25.816	5.3200	10.263	6.5980
	20.387	105.33	43.570	1.1630	2.1400
	3.4250	9.98000E-03	0.17200	0.37200	
213	21.000	7.68715E+05	50401.	47.000	351.26
	11.850	25.193	4.9060	6.3610	6.2730
	24.860	48.462	39.357	1.3400	2.4230
	3.4760	6.40000E-02	0.13900	0.32700	
214	21.000	7.68715E+05	50601.	47.000	355.80
	16.794	27.625	4.7860	7.1360	6.0940
	22.151	50.920	37.135	1.3620	2.6380
	3.6630	5.68000E-02	0.16500	0.36100	
215	21.000	7.68715E+05	50802.	47.000	349.16
	9.8930	25.233	5.4760	7.8150	7.3480
	29.968	61.869	53.872	1.4340	2.6690
	3.5990	8.15100	0.22500	0.42900	
216	21.000	7.68715E+05	51002.	47.000	345.39
	3.4000	17.840	4.6870	4.9510	8.5860
	21.225	24.513	73.756	1.4460	2.9780
	3.5030	0.16700	0.34100	0.31000	
217	21.000	7.68715E+05	51203.	47.000	341.29
	355.00	9.3850	2.9610	4.9240	8.5520
	8.7670	24.248	73.138	1.4750	3.6190
	3.6290	0.16600	0.25700	0.37600	

EDCR 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	7.68715E+05	44558.	46.000	42.480
	58.267	45.261	5.3140	4.2640	2.5890
	20.234	18.108	6.7830	1.2540	2.7790
	4.7360	0.11500	0.21800	0.21400	
205	21.000	7.68715E+05	44758.	46.000	42.750
	49.112	45.647	4.4400	4.2130	3.2050
	19.785	17.753	10.297	1.2010	2.6430
	4.4640	9.10000E-02	0.19600	0.25100	
206	21.000	7.68715E+05	44958.	46.000	42.042
	58.131	45.896	3.4790	3.4780	3.6610
	12.185	13.897	13.462	1.2430	2.6270
	4.4540	7.50000E-02	0.15500	0.28500	
207	21.000	7.68715E+05	45158.	46.000	33.663
	44.256	42.599	4.2930	4.4730	4.3062
	10.431	20.887	18.545	1.1420	2.5240
	4.3150	7.28000E-02	0.19500	0.31500	
208	21.000	7.68715E+05	45359.	47.000	24.992
	48.139	41.858	5.8260	4.3830	4.4390
	25.268	19.218	19.784	1.0910	2.4430
	4.0240	7.00000E-02	0.18600	0.30500	
209	21.000	7.68715E+05	45559.	47.000	8.0550
	26.945	37.872	6.8580	5.8670	3.6900
	46.918	34.421	17.620	1.1360	2.2740
	3.8730	8.18000E-02	0.16200	0.24000	
210	21.000	7.68715E+05	45801.	46.000	354.35
	14.348	31.479	7.7480	9.4500	3.9810
	60.049	89.389	15.216	1.2740	2.2590
	3.6530	7.00000E-02	0.19200	0.23300	

EDCR 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	7.68715E+05	51403.	47.000	345.65
	358.32	9.7910	6.1870	6.9190	7.6810
	38.277	47.867	58.992	1.5120	3.5140
	3.7190	0.23700	0.28300	0.27000	
219	21.000	7.68715E+05	51604.	47.000	350.90
	359.84	10.829	9.8540	5.7900	7.9300
	81.978	83.615	62.889	1.1820	2.9560
	3.8940	0.17900	0.30000	0.37000	
220	21.000	7.68715E+05	51804.	47.000	355.62
	359.99	16.756	5.6910	4.6620	7.2730
	32.392	21.730	52.895	1.2230	3.1430
	3.7760	0.14000	0.16000	0.34500	
221	21.000	7.68715E+05	5.804.	47.000	350.35
	7.6850	16.666	5.7490	4.3830	6.7850
	33.837	18.520	46.830	1.5650	3.6450
	4.3150	7.10000E-02	0.15900	0.32300	
222	21.000	7.68715E+05	52205.	47.000	1.9560
	6.6430	12.837	4.7840	3.6660	5.0120
	22.991	13.441	25.120	1.5410	3.8480
	4.4460	0.14100	0.20000	0.28100	
223	21.000	7.68715E+05	52406.	47.000	5.8110
	12.390	15.684	6.8230	4.1220	5.4650
	46.548	16.990	29.864	1.6430	4.0360
	4.5380	0.14200	0.17300	0.29000	
224	21.000	7.68715E+05	52607.	47.000	11.596
	13.933	10.525	4.9570	2.2330	3.6640
	23.595	4.9060	13.421	1.6520	4.1760
	4.3190	0.12000	0.13900	0.21100	

EDCR 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
225	21.000 16.082 38.885 4.1630	7.68715E+05 28.864 3.8550 9.98000E-02	52087. 5.7580 12.464 9.68000E-02	47.000 1.7480 1.5670 0.10680	10.775 3.5310 4.1310
226	21.000 19.353 20.157 4.1200	7.68715E+05 21.900 5.5810 0.10180	53000. 5.3860 9.7770 0.11800	47.000 2.3620 1.5490 0.17380	17.739 3.1270 4.0640
227	21.000 23.664 23.525 4.2170	7.68715E+05 25.976 2.1520 0.13000	53200. 5.7980 11.546 0.10100	47.000 1.4570 1.5740 0.20500	18.443 3.3700 4.8490
228	21.000 28.629 23.867 4.2760	7.68715E+05 38.166 3.2610 0.11580	53400. 4.8058 17.745 0.11700	47.000 1.7970 1.5368 0.26480	26.131 4.2120 3.9150
229	21.000 28.413 26.918 4.6640	7.68715E+05 32.786 5.1358 0.12980	53609. 5.1858 14.041 0.12600	47.000 2.2660 1.4267 0.23360	26.839 3.6520 3.6379
230	21.000 32.494 15.266 3.7670	7.68715E+05 23.808 7.4800 0.50000E-02	53800. 2.0938 8.2330 0.10180	47.000 2.7280 1.3878 0.14980	38.784 2.8658 3.3228
231	21.000 26.758 22.684 3.5468	7.68715E+05 38.874 5.5080 7.75999E-02	54010. 4.7638 6.6758 0.10180	47.000 2.3628 1.2468 0.15668	23.286 2.5848 3.8578

EDCR 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
232	21.000 25.331 17.089 3.3790	7.68715E+05 31.356 10.668 7.20000E-02	54210. 4.2280 7.1140 0.16280	47.000 3.2650 1.1770 0.12080	18.134 2.6670 2.7300
233	21.000 26.956 11.705 3.4240	7.68715E+05 33.646 4.3688 3.58000E-02	54329. 3.4218 3.2298 9.48000E-02	31.000 2.8808 1.8638 0.11888	19.361 1.7978 2.6848
234	22.000 40.524 118.45 4.1910	7.68716E+05 29.857 55.919 0.48280	84359. 18.589 41.968 0.54280	47.000 7.4798 2.2298 0.48968	47.816 6.4788 4.1678
235	22.000 38.832 78.868 3.4818	7.68716E+05 27.724 43.695 0.38488	84559. 9.8358 69.668 0.38688	46.000 6.6188 1.9348 0.42688	48.798 8.3478 3.2978
236	22.000 54.043 186.66 4.2598	7.68716E+05 36.814 94.968 0.32188	84881. 18.328 29.959 0.53588	47.000 9.7458 2.8168 0.42788	55.337 5.4738 3.6858
237	22.000 44.388 183.45 4.2238	7.68716E+05 32.428 71.184 0.37888	85081. 10.171 48.323 0.57888	46.000 8.4328 2.1348 0.52288	44.218 6.9518 3.8728
238	22.000 50.713 78.473 4.3358	7.68716E+05 35.745 46.261 0.33488	85281. 8.8568 18.418 0.46688	46.000 6.8828 2.8538 0.34788	53.274 4.2918 3.9388

EDCR 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
239	22.000 50.345 162.90 3.8738	7.68716E+05 31.886 107.92 0.43288	85481. 12.765 55.377 0.63288	46.000 10.388 1.0648 0.48988	49.588 7.4428 3.4118
240	22.000 46.197 185.20 4.0888	7.68716E+05 27.722 112.99 0.32888	85681. 10.258 37.688 0.63188	47.000 10.638 1.9278 0.46388	49.692 6.1398 3.4578
241	22.000 38.687 159.54 4.2268	7.68716E+05 21.657 88.153 0.35388	85884. 12.631 69.478 0.40288	47.000 8.9558 2.1348 0.40188	29.552 8.3358 3.0958
242	22.000 26.642 209.41 5.1598	7.68716E+05 10.992 137.14 0.46188	90085. 14.471 46.856 0.78888	47.000 11.711 2.2168 0.59988	31.981 6.7868 4.8358
243	22.000 32.402 167.99 4.8218	7.68716E+05 14.916 132.22 0.62588	90286. 12.961 48.662 0.94188	47.000 11.499 2.4138 0.84168	36.382 6.3778 4.1618
244	22.000 33.484 128.54 4.8638	7.68716E+05 21.782 118.15 0.52888	90487. 14.864 63.262 0.77988	47.000 10.916 2.4148 0.42288	33.436 7.9548 4.4518
245	22.000 30.448 183.89 4.9838	7.68716E+05 16.317 78.569 0.49688	90688. 10.153 69.333 0.75288	47.000 8.4818 2.6588 0.78188	29.178 8.3278 4.5748

EDCR 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
246	22.000 19.192 127.19 5.7578	7.68716E+05 6.2688 81.532 0.78688	90889. 11.278 42.387 0.85688	47.000 9.8388 2.9188 0.63888	16.949 6.5118 4.7768
247	22.000 14.861 188.78 4.9328	7.68716E+05 3.3868 89.623 0.47988	91089. 10.438 114.33 0.64388	47.000 9.4678 2.5578 0.48788	15.459 10.693 4.4898
248	22.000 25.349 138.74 4.8658	7.68716E+05 10.745 69.712 0.54688	91218. 11.434 34.553 0.67688	47.000 8.3498 2.5398 0.61888	23.944 5.8788 4.4138
249	22.000 24.669 201.14 4.6278	7.68716E+05 11.561 176.14 0.68488	91411. 14.182 54.668 0.67588	47.000 13.272 2.3558 0.63888	29.361 7.3938 3.8978
250	22.000 29.334 215.75 5.2238	7.68716E+05 16.683 185.25 0.52888	91611. 14.688 44.613 0.65788	47.000 10.255 2.5998 0.59488	29.211 6.6798 4.8428
251	22.000 29.583 129.71 4.8218	7.68716E+05 14.697 105.32 0.41588	91812. 11.385 89.445 0.55888	47.000 10.258 2.3188 0.48888	33.328 5.4568 4.1618
252	22.000 30.363 69.779 4.4468	7.68716E+05 24.521 57.898 0.41288	92012. 8.3538 29.187 0.56388	47.000 7.5568 2.4188 0.55388	35.136 6.2548 4.1728

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	7.60716E+05	93214.	47.000	16.580
	17.864	8.0730	9.9950	8.5090	5.9020
	99.895	79.374	34.620	2.3980	4.8620
	4.2860	0.32100	0.40400	0.29700	
254	22.000	7.60716E+05	93414.	47.000	23.389
	26.327	10.291	13.955	11.520	7.8810
	194.75	132.70	62.117	2.6350	4.4050
	4.8520	0.45900	0.63000	0.69200	
255	22.000	7.60716E+05	93615.	47.000	29.440
	31.751	17.363	12.393	9.0070	7.9540
	153.59	81.133	63.506	2.3670	4.3420
	4.5690	0.62100	0.89100	0.77600	
256	22.000	7.60716E+05	93816.	47.000	26.453
	23.458	12.929	10.492	9.0020	5.0300
	110.89	82.403	25.383	2.2900	4.1510
	4.7020	0.44300	0.71000	0.53400	
257	22.000	7.60716E+05	93017.	47.000	23.519
	32.456	17.443	11.362	8.5930	4.7660
	129.18	86.869	22.717	2.6850	4.5160
	5.1690	0.50800	0.67700	0.53700	
258	22.000	7.60716E+05	93218.	47.000	24.360
	23.674	13.196	7.1370	6.3520	4.6690
	50.532	40.352	21.795	3.0450	4.9470
	5.3060	0.37500	0.60400	0.40400	
259	22.000	7.60716E+05	93419.	47.000	39.345
	36.272	23.233	11.190	6.6470	5.1970
	125.21	44.170	27.813	2.7150	4.7290
	5.1700	0.53500	0.50100	0.37900	

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	7.60721E+05	89802.	47.000	10.182
	19.795	7.9020	7.8460	7.8210	5.5260
	61.566	49.295	30.533	2.5640	4.1120
	4.2730	0.43200	0.54000	0.51900	
268	23.000	7.60721E+05	90002.	47.000	12.402
	11.549	3.1740	11.870	8.0780	6.0410
	122.54	65.118	36.496	2.2000	3.7540
	4.0590	0.43100	0.53000	0.33000	
269	23.000	7.60721E+05	90203.	47.000	18.431
	14.410	4.8250	11.529	6.5840	5.7000
	132.52	43.358	32.570	2.2750	3.8200
	4.2370	0.34900	0.32600	0.34700	
270	23.000	7.60721E+05	90404.	47.000	34.857
	32.043	16.511	9.1350	6.3240	8.1170
	83.455	33.990	65.805	2.3080	3.8810
	3.9740	0.35700	0.52900	0.35600	
271	23.000	7.60721E+05	90605.	47.000	15.259
	15.159	7.6900	14.890	14.776	9.3890
	221.71	218.34	69.839	1.7730	2.3970
	3.5000	0.40100	0.54100	0.50200	
272	23.000	7.60721E+05	90805.	47.000	16.604
	16.344	6.8120	9.7050	7.2750	6.9600
	95.747	52.920	47.160	2.2000	3.6620
	3.9710	0.30500	0.30500	0.30300	
273	23.000	7.60721E+05	91006.	47.000	17.590
	20.266	10.987	12.626	10.850	8.3460
	159.41	101.16	69.650	1.7640	3.9590
	3.5520	0.35500	0.53700	0.45900	

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	7.60716E+05	93618.	47.000	33.791
	31.552	22.045	11.481	7.5250	5.8550
	131.82	62.964	34.276	2.7090	4.6570
	4.8790	0.53600	0.50700	0.56000	
261	22.000	7.60716E+05	93820.	47.000	44.445
	44.377	29.793	11.052	9.1350	8.8770
	122.15	53.336	65.232	3.3740	4.0390
	4.5100	0.45600	0.64500	0.71000	
262	22.000	7.60716E+05	93510.	23.000	54.433
	40.214	16.711	7.5450	10.551	12.130
	56.991	111.06	147.12	2.1750	3.7510
	3.8760	0.29000	0.70600	0.40000	
263	23.000	7.60721E+05	84958.	47.000	27.822
	26.519	15.271	23.075	17.037	13.956
	532.44	318.16	195.88	1.5710	2.4090
	3.0410	0.42000	0.60100	0.75100	
264	23.000	7.60721E+05	85159.	47.000	12.797
	13.385	3.4140	8.7290	5.9710	6.1260
	76.282	35.655	37.524	2.4900	4.0270
	4.0630	0.28400	0.39300	0.37600	
265	23.000	7.60721E+05	85359.	47.000	20.523
	23.137	11.152	10.911	8.5010	6.6240
	119.06	73.627	43.871	2.3130	3.5200
	3.6990	0.43500	0.57600	0.66700	
266	23.000	7.60721E+05	85601.	47.000	15.242
	11.796	2.9000	14.363	11.900	7.0690
	206.29	141.62	49.970	2.4970	4.1380
	4.2010	0.41000	0.59000	0.45400	

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	7.60721E+05	91207.	47.000	22.832
	23.003	16.203	14.479	13.436	10.573
	209.61	180.52	111.79	1.7960	2.9590
	2.9860	0.31500	0.49100	0.69000	
275	23.000	7.60721E+05	91407.	46.000	18.547
	20.339	8.1530	25.790	19.012	15.294
	665.11	361.44	233.91	1.7860	3.0600
	3.3150	0.67600	0.83100	0.82100	
276	23.000	7.60721E+05	91607.	46.000	46.566
	52.840	27.670	13.183	11.321	9.0670
	173.80	120.16	82.203	1.7370	3.0000
	3.6270	0.42100	0.61700	0.57100	
277	23.000	7.60721E+05	91809.	47.000	37.510
	31.066	10.333	12.713	9.0630	10.700
	161.61	97.269	116.38	1.7440	2.0840
	3.1240	0.41000	0.57000	0.41900	
278	23.000	7.60721E+05	92010.	47.000	29.291
	29.371	12.640	14.231	11.583	17.031
	202.52	134.17	290.05	1.6900	2.5410
	3.0450	0.36400	0.53000	0.40200	
279	23.000	7.60721E+05	92211.	47.000	46.776
	50.237	33.972	14.103	10.195	8.1170
	190.91	103.95	65.087	1.7530	3.0170
	3.3000	0.43400	0.53000	0.50100	
280	23.000	7.60721E+05	92412.	47.000	43.279
	39.646	25.106	6.9600	7.2310	4.9540
	40.446	52.204	24.541	1.8020	2.9020
	3.1070	0.22700	0.35900	0.26000	

POOR ORIGINAL

EDCR 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
281	23.000 28.944 281.87 2.6550	7.68721E+05 15.343 176.75 0.48700	92612. 14.098 188.87 0.65400	46.000 13.369 1.5400 0.48700	37.832 18.044 2.3538
282	23.000 39.096 244.22 2.7720	7.68721E+05 25.969 221.18 0.41200	92813. 15.620 214.68 0.63700	46.000 14.069 1.5310 0.56300	37.921 14.652 2.4340
283	23.000 53.945 406.12 2.6170	7.68721E+05 34.824 225.39 0.41960	93012. 28.153 92.481 0.54500	46.000 15.013 1.3330 0.52000	54.353 9.6170 2.2230
284	23.000 48.047 413.25 2.6060	7.68721E+05 28.514 356.48 0.49200	93214. 28.329 218.19 0.72600	47.000 18.343 1.3[illegible] 0.78600	47.024 14.498 2.3140
285	23.000 33.154 01.[illegible] 3.[illegible]	7.68721E+05 22.681 57.276 0.29300	93415. 9.8480 4[illegible].190 0.48000	47.000 7.5600 2.1000 0.42500	29.275 6.9410 3.2530
286	23.000 26.587 239.79 2.3080	7.68721E+05 19.174 181.61 0.38200	93617. 15.192 169.86 0.43800	47.000 13.484 1.4380 0.54500	31.622 13.602 2.2380
287	23.000 5.5410 276.69 1.9790	7.68721E+05 359.59 286.18 W.38000	93818. 16.648 88.472 0.41400	46.000 16.317 1.0910 0.25500	7.0000 8.3710 1.7800

EDCR 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
295	24.000 16.297 56.321 3.6030	7.68722E+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 4.0550	7.68722E+05 31.798 91.412 0.42500	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	7.68722E+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	7.68722E+05 21.964 158.73 0.45000	93006. 12.973 58.801 0.57600	47.000 12.277 1.9380 0.38100	41.529 7.6160 3.3020
299	24.000 31.461 162.11 3.7550	7.68722E+05 22.906 83.272 0.37300	93206. 12.732 46.668 0.47000	47.000 9.1250 2.1850 0.33200	30.970 6.8270 3.5630
300	24.000 23.292 188.87 3.8060	7.68722E+05 14.866 84.677 0.40900	93410. 13.743 57.290 0.559[illegible]	47.000 9.2020 1.6510 [illegible]0300	25.291 7.5690 2.3480
301	24.000 12.871 115.93 3.2160	7.68722E+05 7.0910 93.817 0.30500	93611. 10.767 82.958 0.45700	47.0[illegible] 9.60[illegible] 1.6[illegible] 0.47[illegible]	10.503 9.1030 3.8.50

EDCR 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
288	23.000 26.715 995.05 2.1520	7.68721E+05 18.115 826.53 0.36300	94019. 31.544 264.49 0.57200	45.000 20.749 1.0710 0.46100	24.649 16.263 1.6950
289	23.000 37.321 180.56 2.6630	7.68721E+05 7.6240 190.80 0.41600	94220. 17.337 164.35 0.56600	46.000 13.913 1.3360 0.49400	42.787 12.920 2.1250
290	23.000 6.6570 207.61 2.5790	7.68721E+05 3.3670 128.26 0.25700	94322. 14.489 283.57 0.21600	24.000 11.325 1.4680 0.14700	13.219 14.477 2.2750
291	24.000 41.490 155.14 3.1670	7.68722E+05 27.816 131.61 0.41900	91958. 12.455 139.45 0.63200	46.000 11.472 1.0970 0.68200	43.359 11.809 3.1250
292	24.000 53.862 104.91 3.2750	7.68722E+05 34.765 98.722 0.34200	91801. 10.243 40.395 0.56000	47.000 9.9360 1.9280 0.39300	57.812 6.3550 3.3870
293	24.000 30.341 67.339 3.0660	7.68722E+05 29.054 93.123 0.23500	92002. 6.2060 53.657 0.51800	46.000 9.6500 1.8650 0.34300	38.041 7.3250 3.8000
294	24.000 24.423 175.84 3.3840	7.68722E+05 13.537 172.84 0.49900	92203. 13.238 55.786 0.77800	47.000 13.116 1.8450 0.61000	19.273 7.4650 2.9730

EDCR 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
302	24.000 27.538 138.19 3.3630	7.68722E+05 14.172 111.83 0.34100	93811. 11.418 96.593 0.54700	47.000 10.537 1.9890 0.41000	30.258 9.8280 3.2980
303	24.000 22.508 123.56 3.6420	7.68722E+05 9.5890 66.630 0.42100	94012. 11.116 61.805 0.56800	47.000 8.1630 2.0460 0.48900	22.812 7.8620 3.5480
304	24.000 21.[illegible]20 92.531 3.5890	7.68722E+05 12.884 44.281 0.24900	94214. 9.6100 55.096 0.44800	47.000 6.6400 1.8920 0.37200	20.464 7.4230 3.2020
305	24.000 24.865 239.86 3.4960	7.68722E+05 10.860 252.85 0.34500	94415. 15.487 126.79 0.66200	4[illegible].000 15.876 1.7520 0.46500	22.901 11.260 2.9360
306	24.000 2.3510 73.249 3.1810	7.68722E+05 0.68000 26.838 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 2.7480	7.68722E+05 31.765 669.78 0.59200	94816. 28.481 275.12 0.82900	47.000 25.879 1.2120 0.69900	43.928 16.587 2.0920
308	24.000 40.209 162.81 3.1220	7.68722E+05 36.584 153.48 0.39200	95017. 12.728 118.27 0.61300	46.000 12.389 1.7750 0.59500	43.482 10.581 2.8668

EDCR 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	

309	24.000	7.68722E+05	95210.	47.000	69.680
	64.811	51.647	21.652	10.765	9.8108
	468.82	368.43	81.318	1.3710	2.2820
	2.6356	0.42800	0.55500	0.46500	
310	24.000	7.68722E+05	95410.	46.000	32.928
	26.161	20.746	19.452	16.446	13.509
	378.36	278.46	184.93	1.4298	2.3360
	2.5000	0.44800	0.75200	0.75200	
311	24.000	7.68722E+05	95620.	47.000	25.402
	25.166	11.427	13.814	9.7960	5.3060
	169.36	95.560	28.154	1.6460	2.0830
	3.1300	0.31500	0.46400	0.39600	
312	24.000	7.68722E+05	95821.	47.000	33.581
	31.675	14.005	11.639	13.642	11.164
	175.47	106.11	208.63	1.5820	2.3220
	2.4960	0.38200	0.47400	0.44700	
313	24.000	7.68722E+05	1.00022E+05	46.000	58.046
	49.687	37.374	10.891	8.7930	7.9710
	118.61	77.333	63.535	1.6750	2.7170
	2.6900	0.28900	0.39600	0.42200	
314	24.000	7.68722E+05	1.00223E+05	46.000	23.870
	27.997	11.038	37.856	38.242	27.089
	1433.1	914.62	773.34	1.0580	1.9150
	1.9900	0.71500	1.0250	0.69400	
315	24.000	7.68722E+05	1.00425E+05	47.000	2.0760
	2.5920	354.69	15.232	13.660	11.082
	232.83	186.59	121.84	1.6730	2.7590
	3.4040	0.55200	0.79400	0.39400	

EDCR 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	

316	24.000	7.68722E+05	1.00626E+05	47.000	347.92
	354.28	350.46	17.283	13.534	11.400
	298.69	183.16	129.95	1.5350	2.5500
	3.8740	0.53400	0.74000	0.25100	
317	24.000	7.68722E+05	1.00825E+05	46.000	28.975
	28.838	359.58	19.782	12.841	15.589
	364.85	164.98	242.98	1.2400	2.8120
	2.3160	0.29200	0.42200	0.37200	
318	24.000	7.68722E+05	1.01026E+05	47.000	20.086
	19.989	18.229	28.697	20.832	14.630
	409.38	401.29	214.05	1.8620	2.8640
	3.3350	0.68000	0.98500	0.79200	
319	24.000	7.68722E+05	1.01227E+05	47.000	25.771
	25.815	14.687	1..693	12.133	0.0640
	136.74	147.21	65.829	1.9580	3.0810
	2.9980	0.40500	0.54200	0.54600	
320	24.000	7.68722E+05	1.01729E+05	1.0000	28.270
	27.270	7.8000	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000	1.4268	2.1060
	2.1990	0.00000	0.00000	0.00000	

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.

TRNSPT 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.

EDCR TESTS 4-13 (1975)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRNSPT V	DATE DIR TOT SIG	START VEL DIFF SIG	END TOT VAR TRNSPT S	NUM PTS DIFF VAR
1	4.0000	7.50709E+05	65900.	74300.	105.00
	4.0000	20.335	3.8214	126.17	64.190
	49.493	11.232	9.1755	7.8351	
2	4.0000	7.50709E+05	65900.	74900.	105.00
	10.000	24.767	3.6003	76.370	48.026
	30.997	8.7390	6.9301	5.5675	
3	4.0000	7.50709E+05	65900.	74900.	105.00
	30.000	14.645	4.5010	77.394	56.958
	39.140	9.7974	7.5471	6.2562	
4	5.0000	7.50718E+05	1.10700E+05	1.20700E+05	193.00
	4.0000	245.56	7.2544	281.92	136.52
	52.609	14.276	11.684	9.6275	
5	5.0000	7.50718E+05	1.10700E+05	1.20700E+05	193.00
	10.000	245.57	8.8169	171.38	181.25
	64.997	13.091	10.362	9.2194	
6	5.0000	7.50718E+05	1.10700E+05	1.20700E+05	193.00
	30.000	246.92	8.9655	153.03	80.552
	60.192	12.371	8.9751	9.3911	
7	6.0000	7.50721E+05	72400.	82400.	351.00
	4.0000	48.145	1.4842	921.02	189.50
	787.59	30.340	10.464	29.864	
8	6.0000	7.50721E+05	72400.	82400.	351.00
	10.000	38.352	1.6795	729.92	183.56
	609.27	26.997	10.176	24.663	
9	6.0000	7.50721E+05	72400.	82400.	351.00
	30.000	42.201	2.5179	462.89	60.336
	489.42	21.515	7.7716	20.234	
10	7.0000	7.50722E+05	64300.	73000.	96.000
	4.0000	300.85	7827.3	3.54526E+05	12426.
	20857.	628.11	111.47	169.98	

EDCR TESTS 4-13 (1975)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRNSPT V	DATE DIR TOT SIG	START VEL DIFF SIG	END TOT VAR TRNSPT S	NUM PTS DIFF VAR
11	7.0000	7.50722E+05	64300.	73000.	96.000
	10.000	250.56	11240.	2.13220E+05	9020.0
	2861.4	461.76	99.856	53.492	
12	7.0000	7.50722E+05	64300.	73000.	96.000
	30.000	289.91	9681.3	2.03578E+05	8630.9
	19823.	451.20	92.983	148.79	
13	8.0000	7.50724E+05	44800.	51700.	101.00
	4.0000	384.09	0.57920	3292.5	134.31
	3809.1	57.360	11.589	54.655	
14	8.0000	7.50724E+05	44800.	51700.	101.00
	10.000	296.09	1.0183	1614.8	112.58
	1456.4	48.174	10.606	28.163	
15	8.0000	7.50724E+05	44800.	51700.	101.00
	30.000	344.91	1.6490	631.87	77.049
	731.85	28.842	8.8232	27.853	
17	9.0000	7.50728E+05	60300.	70300.	1765.0
	4.0000	3.3272	1.7172	920.99	144.27
	804.69	38.348	12.811	28.371	
17	9.0000	7.50728E+05	60300.	70300.	1765.0
	10.000	28.820	2.7753	676.56	59.852
	614.81	26.811	7.7364	24.795	
18	9.0000	7.50728E+05	60300.	70300.	1765.0
	30.000	30.512	4.0365	251.67	35.917
	237.78	15.864	5.9938	15.420	
19	10.000	7.50731E+05	1.12400E+05	1.20700E+05	890.00
	4.0000	190.97	0.71363	3418.3	1779.5
	965.67	58.398	42.184	31.075	
20	10.000	7.50731E+05	1.12400E+05	1.20700E+05	890.00
	10.000	178.11	3.0303	746.94	539.00
	400.33	27.338	23.234	21.916	

EDCR TESTS 4-13 (1975)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRNSPT V	DATE DIR TOT SIG	START VEL DIFF SIG	END TOT VAR TRNSPT S	NUM PTS DIFF VAR
21	10.000	7.50720E+05	1.12400E+05	1.20700E+05	890.00
	30.000	192.75	3.2406	967.51	140.60
	806.26	31.105	11.869	28.395	
22	11.000	7.50812E+05	1.10000E+05	1.13500E+05	766.00
	4.0000	81.883	0.00499	4211.5	1628.9
	2993.0	64.896	40.359	54.716	
23	000	7.50812E+05	1.10000E+05	1.13500E+05	766.00
	10.000	78.311	0.87132	3635.9	1231.8
	2562.6	60.794	35.896	50.623	
24	11.000	7.50812E+05	1.10000E+05	1.13500E+05	766.00
	30.000	82.465	0.94477	3242.9	578.25
	2389.0	56.947	24.847	40.852	
25	12.000	7.50813E+05	74200.	81200.	1036.0
	4.0000	40.190	2.2861	257.97	64.684
	186.70	16.862	8.0426	13.664	
26	12.000	7.50813E+05	74200.	81200.	1036.0
	10.000	41.982	2.4239	267.92	58.525
	208.82	16.368	7.6502	14.423	
27	12.000	7.50813E+05	74200.	81200.	1036.0
	30.000	42.618	3.5426	145.28	35.141
	187.06	12.858	5.9288	10.347	
28	13.000	7.50814E+05	1.11700E+05	1.21700E+05	2067.0
	4.0000	25.784	1.3583	2198.5	1615.2
	1494.9	49.092	40.198	38.664	
29	13.000	7.50814E+05	1.11700E+05	1.21700E+05	2067.0
	10.000	29.902	1.4819	1975.9	1474.4
	1282.0	44.451	38.398	35.816	
30	13.000	7.50814E+05	1.11700E+05	1.21700E+05	2067.0
	30.000	22.399	1.7257	1573.6	691.67
	1059.0	39.669	26.388	32.542	

EOCR TESTS 14-24 (1976)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRNSPT V	DATE DIR TOT SIG	START SPD DIFF SIG	END TOT VAR TRNSPT S	NUM PTS DIFF VAR
1	14.000	7.68508E+05	71900.	81900.	1225.0
	4.0000	45.538	6.4645	89.644	78.427
	19.357	9.4368	8.3928	4.4888	
2	14.000	7.68506E+05	71900.	81900.	1225.0
	18.000	46.379	7.7528	66.777	50.286
	17.966	8.1720	7.8918	4.2398	
3	14.000	7.68506E+05	71900.	81900.	1225.0
	30.000	47.445	8.4568	48.462	33.828
	15.872	6.9618	5.8168	3.8828	
4	15.000	7.68512E+05	71900.	81900.	1343.0
	4.0000	19.547	1.8868	451.61	151.28
	321.17	21.256	12.256	17.921	
5	15.000	7.68512E+05	71900.	81900.	1342.0
	18.000	20.686	3.9968	400.08	101.29
	310.80	20.082	10.864	17.957	
6	15.000	7.68512E+05	71900.	81900.	1343.0
	30.000	22.161	4.6388	361.76	58.617
	329.83	19.539	7.3228	18.163	
7	16.000	7.68519E+05	71600.	81600.	1316.0
	4.0000	24.217	2.9258	431.88	132.67
	311.64	20.782	11.518	17.653	
8	16.000	7.68518E+05	71600.	81600.	1316.0
	18.000	24.626	3.1558	389.47	99.237
	305.16	19.735	9.3628	17.469	
9	16.000	7.68518E+05	71600.	81600.	1316.0
	30.000	29.822	3.5228	293.99	87.856
	233.65	17.146	9.2388	15.265	
10	17.000	7.68521E+05	55100.	65100.	1200.0
	4.0000	341.78	0.64000	5387.5	199.18
	5029.3	72.853	14.118	78.918	

EOCR TESTS 14-24 (1976)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRNSPT V	DATE DIR TOT SIG	START SPD DIFF SIG	END TOT VAR TRNSPT S	NUM PTS DIFF VAR
21	20.000	7.68638E+05	44400.	54200.	1349.0
	30.000	46.587	5.5408	149.29	19.989
	176.11	12.218	4.3588	11.667	
22	21.000	7.68715E+05	44400.	54400.	1380.0
	4.0000	8.4758	1.2768	373.71	81.683
	330.95	19.332	5.6228	18.411	
23	21.000	7.68715E+05	44400.	54400.	1380.0
	18.000	18.638	3.0058	211.79	27.181
	189.75	14.553	5.2148	13.775	
24	21.000	7.68715E+05	44400.	54400.	1380.0
	30.000	27.243	3.8798	122.47	20.097
	56.365	11.867	5.3818	9.5178	
25	22.000	7.68716E+05	84200.	94200.	1335.0
	4.0000	33.515	2.3428	283.13	131.19
	69.153	14.252	11.454	8.3168	
26	22.000	7.68716E+05	84200.	94200.	1335.0
	18.000	32.875	4.1258	146.83	87.757
	68.719	12.117	9.3698	7.7928	
27	22.000	7.68716E+05	84200.	94200.	1335.0
	30.000	19.177	4.6138	99.849	58.582
	49.413	9.9428	7.1868	7.8298	
28	23.000	7.68721E+05	84800.	94600.	1284.0
	4.0000	26.489	1.7778	328.68	247.64
	128.84	18.127	15.689	11.315	
29	23.000	7.68721E+05	84800.	94600.	1284.0
	18.000	26.488	2.8958	270.39	171.96
	136.76	16.444	13.113	11.694	
30	23.000	7.68721E+05	84800.	94600.	1284.0
	34.000	14.288	3.2258	168.97	110.66
	74.564	12.999	10.528	8.6328	

EOCR TESTS 14-24 (1976)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRNSPT V	DATE DIR TOT SIG	START SPD DIFF SIG	END TOT VAR TRNSPT S	NUM PTS DIFF VAR
11	17.000	7.68521E+05	55100.	65100.	1200.0
	18.000	359.41	1.1578	1911.4	185.58
	1981.6	43.728	18.275	42.469	
12	17.000	7.68521E+05	55100.	65100.	1200.0
	30.000	26.798	2.3428	586.23	34.453
	482.78	22.598	5.8798	21.972	
13	18.000	7.68623E+05	53500.	63500.	1379.0
	4.0000	38.328	3.9678	280.38	74.875
	128.35	14.156	8.6878	10.971	
14	18.000	7.68623E+05	53500.	63500.	1379.0
	18.000	36.779	4.8588	156.69	45.257
	105.84	12.517	6.7278	10.209	
15	18.000	7.68623E+05	53500.	63500.	1379.0
	30.000	32.119	6.7118	125.52	25.721
	96.721	11.248	5.8728	9.9368	
16	19.000	7.68629E+05	42900.	52300.	1311.0
	4.0000	9.8378	1.0898	400.74	66.589
	334.34	20.217	8.1688	19.348	
17	19.000	7.68629E+05	42900.	52900.	1311.0
	18.000	16.311	2.4038	270.89	55.548
	216.38	16.459	7.4538	14.716	
18	19.000	7.68629E+05	42900.	52900.	1311.0
	30.000	37.734	4.4148	154.24	24.289
	132.87	12.428	4.7888	11.498	
19	20.000	7.68638E+05	44400.	54200.	1349.0
	4.0000	35.224	1.6448	445.15	51.816
	386.50	21.899	7.1988	19.662	
20	20.000	7.68638E+05	44400.	54200.	1349.0
	18.000	35.816	3.4658	296.60	25.345
	252.72	16.929	5.9458	15.897	

EOCR TESTS 14-24 (1976)

TOTAL STATISTICS

VARIABLE LABELS...

	TEST LEVEL TRNSPT V	DATE DIR TOT SIG	START SPD DIFF SIG	END TOT VAR TRNSPT S	NUM PTS DIFF VAR
31	24.000	7.68722E+05	91400.	1.01400E+05	1354.0
	4.0000	29.451	1.6048	457.63	248.06
	246.47	21.392	15.758	15.699	
32	24.000	7.68722E+05	91400.	1.01400E+05	1354.0
	18.000	28.881	2.8378	359.5.	185.57
	203.83	18.961	13.622	14.249	
33	24.000	7.68722E+05	91400.	1.01400E+05	1354.0
	30.000	18.248	3.8778	257.59	122.76
	154.89	16.845	11.888	12.413	

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.

EDCR TEST 3 NRC STAB F 7/6/75 0606-0706 MST

GAS S 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	GLN	CONC
120.	28	1.18E-05	50	0.00E+00	208	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	2.25E-05	93	1.96E-05	213	0.00E+00
204.	34	2.99E-05	94	4.66E-05	214	1.17E-05
210.	35	3.25E-05	95	6.15E-05	215	8.78E-05
216.	36	2.83E-05	96	7.71E-05	216	5.82E-05
222.	37	2.22E-05	97	5.10E-05	217	3.64E-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 0.9940 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M	
	GLN	CONC	GLN	CONC	GLN	CONC
54.	9	3.68E-06	69	0.00E+00	189	0.00E+00
120.	20	1.96E-06	90	0.00E+00	200	0.00E+00
132.	22	4.72E-06	92	6.00E+00	202	3.40E-06
138.	23	0.00E+00	93	0.00E+00	203	5.67E-06
144.	24	4.52E-06	94	0.00E+00	204	2.53E-05
150.	25	0.00E+00	95	0.00E+00	205	3.68E-06
156.	26	2.97 [illegible]	96	0.00E+00	206	0.00E+00
168.	28	2.3	98	0.00E+00	208	0.00E+00
174.	29	2.0m [illegible]	99	0.00E+00	209	0.00E+00
180.	30	0.00E+00	90	0.00E+00	210	1.75E-05
186.	31	1.10E-04	91	3.92E-06	211	4.30E-06
192.	32	1.68E-04	92	5.37E-06	212	0.00E+00
198.	33	1.71E-04	93	1.18E-05	213	0.00E+00
204.	34	1.67E-04	94	2.58E-05	214	4.84E-05
210.	35	1.74E-04	95	5.98E-05	215	2.52E-05
216.	36	2.05E-04	96	8.52E-05	216	1.30E-05
222.	37	2.25E-04	97	3.92E-05	217	1.83E-05
228.	38	3.47E-04	98	0.00E+00	218	3.51E-06
234.	39	4.87E-04	99	3.78E-05	219	0.00E+00
240.	40	2.37E-04	100	1.61E-05	220	1.10E-05
246.	41	1.45E-04	01	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
294.	49	2.68E-06	109	0.00E+00	229	0.00E+00
300.	50	3.85E-06	110	0.00E+00	230	0.00E+00

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

GAS S 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.	10	5.60E-04	70	0.00E+00	190	0.00E+00	250	0.00E+00
156.	26	1.70E-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	2.40E-04	271	6.67E-05
192.	32	1.30E-04	92	4.31E-04	212	0.00E+00	272	9.82E-05
198.	33	1.87E-04	93	3.00E-04	213	1.57E-04	273	4.50E-05
204.	34	1.69E-04	94	2.37E-04	214	0.00E+00	274	7.36E-05
210.	35	0.00E+00	95	1.45E-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 0.9498 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.[illegible]E-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	2.37E-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	6.05E-05	84	3.37E-05	204	5.96E-04	264	1.65E-05
150.	25	0.00E+00	85	4.26E-05	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	0.00E+00	206	0.00E+00	266	0.00E+00
162.	27	1.35E-04	87	1.62E-05	207	0.00E+00	267	0.00E+00
168.	28	2.34E-04	88	2.40E-05	208	1.98E-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	1.38E-04	271	3.74E-05
192.	32	1.51E-03	92	5.07E-04	212	0.00E+00	272	6.73E-05
198.	33	3.35E-03	93	7.11E-04	213	4.27E-05	273	1.84E-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	2.5[illegible]E-05
222.	37	4.87E-01	97	0.00E+00	217	0.00E+00	277	0.00E+00

EDCR TEST 3 NRC STAB F 7/6/75 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	GLN	CONC
312.	52	8.11E-06	112	0.00E+00	232	0.00E+00
324.	54	2.92E-06	114	0.00E+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	GLN	CONC
186.	31	1.83E-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	6.85E-05	215	1.05E-05
216.	36	5.82E-05	96	6.86E-05	216	1.05E-05
222.	37	3.69E-05	97	4.97E-05	217	0.00E+00
228.	38	2.[illegible]E-05	98	0.00E+00	218	0.00E+00
234.	39	1.00E-05	99	0.00E+00	219	0.00E+00

EDCR 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 0.9498 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
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	6.23E-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	6.86E-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	4.59E-04	94	3.85E-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

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

GAS S AVERAGE WINDS: SPEED 9.0 M/S ;DIRECTION 247. DEGREES
SOURCE STRENGTH 0.0758 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	9.35E-05	63	8.95E-06	183	0.00E+00
24.	4	2.28E-04	64	4.09E-05	184	0.00E+00
30.	5	6.78E-04	65	1.62E-04	185	0.00E+00
36.	6	7.85E-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	8.52E-05
54.	9	0.00E+00	69	0.00E+00	189	1.33E-04
60.	10	2.15E-03	70	1.90E-03	190	1.56E-04
66.	11	0.00E+00	71	0.00E+00	191	1.37E-04
72.	12	2.12E-03	72	1.87E-03	192	1.61E-04
78.	13	2.38E-03	73	1.46E-03	193	8.17E-05
84.	14	0.00E+00	74	7.05E-04	194	2.94E-05
90.	15	0.00E+00	75	3.07E-04	195	6.73E-06
96.	16	4.40E-04	76	1.25E-04	196	0.00E+00
102.	17	3.76E-04	77	4.91E-05	197	0.00E+00
108.	18	2.60E-04	78	1.19E-05	198	0.00E+00
114.	19	2.80E-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	5.64E-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 245. 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	1.94E-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	4.48E-04	187	7.46E-05
48.	8	1.24E-03	68	5.68E-04	188	7.82E-05
54.	9	1.17E-03	69	6.49E-04	189	1.04E-04
60.	10	0.00E+00	70	0.00E+00	190	7.49E-05
66.	11	0.00E+00	71	0.00E+00	191	7.49E-05
72.	12	1.49E-03	72	1.88E-03	192	1.18E-04

EDCR 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	8.96E-04	193	5.10E-05
84.	14	0.00E+00	74	9.28E-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	4.33E-05
102.	17	2.52E-03	77	9.40E-04	197	0.00E-05
108.	18	2.00E-03	78	4.90E-04	198	1.11E-04
114.	19	3.83E-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	3.32E-04	201	0.00E+00
132.	22	5.35E-03	82	0.00E+00	202	0.00E+00
138.	23	9.73E-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	4.98E-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	0.00E-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
246.	41	2.47E-05	101	0.00E+00	221	0.00E+00
252.	43	7.36E-05	103	0.00E+00	223	0.00E+00
264.	44	9.81E-05	104	0.00E+00	224	0.00E+00
270.	45	7.45E-05	105	0.00E+00	225	0.00E+00
276.	46	1.81E-04	106	0.00E+00	226	0.00E+00
282.	47	2.83E-04	107	0.00E+00	227	0.00E+00
288.	48	6.98E-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	3.82E-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
336.	56	1.41E-03	116	0.00E+00	236	0.00E+00
342.	57	1.29E-03	117	0.00E+00	237	0.00E+00
348.	58	1.19E-03	118	0.00E+00	238	0.00E+00

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

GAS B AVERAGE WINDS: SPEED 9.0 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	2.63E-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	3.70E-04	188	0.00E+00
60.	10	7.08E-04	70	5.54E-04	190	5.35E-05
66.	11	0.00E+00	71	0.00E+00	191	6.24E-05
72.	12	6.96E-04	72	6.73E-04	192	5.61E-05
78.	13	8.31E-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	1.06E-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

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

GAS S AVERAGE WINDS: SPEED 2.0 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.1006 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	8.88E-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. E+00
114.	19	3.89E-06	79	0.00E+00	199	0.00E+00	259	0.00E+00
126.	21	1.35E-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	0.21E-06	205	0.00E+00	265	0.00E+00
156.	26	2.30E-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	269	0.00E+00
174.	29	3.21E-04	89	1.91E-04	209	4.77E-05	269	7.43E-06
180.	30	0.00E+00	90	0.00E+00	210	5.59E-05	270	1.20E-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
216.	35	0.00E+00	95	9.79E-05	215	2.33E-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	1.04E-05
228.	38	1.12E-04	98	8.17E-05	218	3.47E-05	278	1.96E-05
234.	39	8.59E-05	99	0.00E+00	219	2.80E-05	279	0.00E+00
240.	40	1.86E-04	100	9.23E-05	220	3.44E-05	280	1.27E-05
246.	41	1.82E-04	101	0.00E+00	221	2.98E-05	281	6.89E-06
252.	42	8.51E-05	102	9.48E-05	222	2.86E-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	1.28E-04	224	5.55E-05	284	1.72E-05
270.	45	0.00E+00	105	0.00E+00	225	4.10E-05	285	2.61E-05
276.	46	2.27E-05	106	4.46E-05	226	2.64E-05	286	3.24E-06
282.	47	9.55E-06	107	3.77E-05	227	0.00E+00	287	0.00E+00
288.	48	1.82E-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

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

GAS S AVERAGE WINDS: SPEED 2.8 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 8.1806 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	619	0.00E+00	620	1.63E-04	630	0.00E+00	640	0.00E+00
7.5	611	4.69E-04	621	1.03E-04	631	0.00E+00	641	0.00E+00
15.0	612	4.34E-04	622	1.86E-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

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	5.50E-05	660	3.75E-05
7.5	651	5.56E-05	661	4.80E-05
15.0	652	4.66E-05	662	1.77E-06
23.0	653	4.43E-05	663	4.74E-05
30.5	654	1.54E-05	664	5.22E-05

GAS F AVERAGE WINDS: SPEED 1.9 M/S ;DIRECTION 48. DEGREES
SOURCE STRENGTH 8.6170 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
0.	1	3.39E-05	61	1.44E-05	181	0.00E+00	241	0.00E+00
12.	2	9.75E-06	62	0.00E+00	182	0.00E+00	242	0.00E+00
30.		2.46E-05	65	0.00E+00	185	0.00E+00	245	0.00E+00
48.	6	3.08E-06	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	9.50E-06	69	0.00E+00	189	0.00E+00	249	0.00E+00
60.	10	5.63E-06	70	0.00E+00	190	0.00E+00	250	0.00E+00
72.	12	3.02E-06	72	0.00E+00	192	0.00E+00	252	0.00E+00
96.	16	1.53E-05	76	0.00E+00	196	0.00E+00	256	0.00E+00
114.	19	5.42E-06	79	0.00E+00	199	0.00E+00	259	0.00E+00
126.	21	1.72E-05	81	0.00E+00	201	0.00E+00	261	0.00E+00
132.	22	5.17E-05	82	0.00E+00	202	3.47E-06	262	1.93E-04
138.	23	0.00E+00	83	4.92E-04	203	0.00E+00	263	0.00E+00
144.	24	1.18E-04	84	1.08E-05	204	2.86E-05	264	0.00E+00
150.	25	0.00E+00	85	4.57E-05	205	6.21E-05	265	0.00E+00
156.	26	2.63E-04	86	0.00E+00	206	4.62E-06	266	0.00E+00
162.	27	3.84E-04	87	5.57E-05	207	0.00E+00	267	0.00E+00
168.	28	4.96E-04	88	1.35E-04	208	2.05E-05	268	0.00E+00
174.	29	1.06E-03	89	1.58E-04	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	0.00E+00	210	5.73E-05	270	1.34E-05
186.	31	1.53E-03	91	3.40E-04	211	4.89E-05	271	3.29E-05
192.	32	0.00E+00	92	4.56E-04	212	5.17E-05	272	1.37E-05
198.	33	0.00E+00	93	4.22E-04	213	1.75E-05	273	0.00E+00
204.	34	2.75E-03	94	3.16E-04	214	3.03E-05	274	1.50E-05

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

GAS R AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 8.1346 GM/S RELEASED ROOF

ROOFWIND DISTANCE(ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
42.	7	1.54E-03	67	0.00E+00	187	0.00E+00	247	0.00E+00
48.	8	1.59E-04	68	0.00E+00	188	0.00E+00	248	0.00E+00
96.	16	2.24E-03	76	0.00E+00	196	0.00E+00	256	0.00E+00
132.	22	6.81E-06	82	0.00E+00	202	1.59E-06	262	7.03E-04
138.	23	0.00E+00	83	3.76E-04	203	0.00E+00	263	0.00E+00
144.	24	9.24E-05	84	0.00E+00	204	0.00E+00	264	0.00E+00
156.	26	1.55E-04	86	7.00E-06	206	0.00E+00	266	0.00E+00
162.	27	1.65E-04	87	2.87E-05	207	0.00E+00	267	0.00E+00
168.	28	2.48E-04	88	7.96E-05	208	0.00E+00	268	0.00E+00
174.	29	2.62E-04	89	1.88E-04	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	0.00E+00	210	2.09E-05	270	0.00E+00
186.	31	3.87E-04	91	1.63E-04	211	1.59E-05	271	0.00E+00
192.	32	0.00E+00	92	1.27E-04	212	2.03E-05	272	0.00E+00
198.	33	0.00E+00	93	1.28E-04	213	0.00E+00	273	0.00E+00
204.	34	1.76E-04	94	9.38E-05	214	9.39E-06	274	4.73E-06
210.	35	0.00E+00	95	6.51E-05	215	0.00E+00	275	1.38E-05
216.	36	1.40E-04	96	0.00E+00	216	1.65E-05	276	0.00E+00
222.	37	1.27E-04	97	5.11E-05	217	0.00E+00	277	0.00E+00
228.	38	1.19E-04	98	3.24E-05	218	1.90E-05	278	1.36E-05
234.	39	9.78E-05	99	0.00E+00	219	8.46E-06	279	0.00E+00
240.	40	1.28E-04	100	5.13E-05	220	9.40E-06	280	6.73E-06
246.	41	1.25E-04	101	0.00E+00	221	1.17E-05	281	0.00E+00
252.	42	1.11E-04	102	6.10E-05	222	0.00E+00	282	0.00E+00
258.	43	9.13E-05	103	7.01E-05	223	3.61E-05	283	0.00E+00
264.	44	0.00E+00	104	4.67E-05	224	1.73E-05	284	0.00E+00
270.	45	0.00E+00	105	0.00E+00	225	1.14E-05	285	0.00E+00
276.	46	3.81E-05	106	3.87E-05	226	7.94E-06	286	0.00E+00
282.	47	2.52E-06	107	2.63E-05	227	0.00E+00	287	0.00E+00
288.	48	1.12E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
294.	49	6.02E-06	109	1.27E-04	229	0.00E+00	289	0.00E+00
300.	50	2.04E-05	110	0.00E+00	230	0.00E+00	290	0.00E+00
306.	51	7.82E-06	111	0.00E+00	231	0.00E+00	291	0.00E+00
312.	52	5.25E-07	112	0.00E+00	232	0.00E+00	292	0.00E+00
336.	56	3.82E-04	116	0.00E+00	236	0.00E+00	296	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	618	0.00E+00	620	1.20E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.77E-07	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

EDCR 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 8.6179 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
210.	35	0.00E+00	95	2.57E-04	215	1.62E-05	275	2.15E-05
216.	36	3.18E-03	96	0.00E+00	216	5.76E-05	276	1.95E-05
222.	37	2.92E-03	97	2.69E-04	217	0.00E+00	277	0.00E+00
228.	38	2.34E-03	98	2.49E-04	218	3.17E-05	278	4.62E-05
234.	39	1.79E-03	99	0.00E+00	219	1.01E-05	279	0.00E+00
240.	40	9.62E-04	100	2.09E-04	220	1.20E-05	280	9.15E-06
246.	41	5.76E-04	101	0.00E+00	221	1.67E-05	281	3.14E-05
252.	42	3.78E-04	102	1.64E-04	222	1.16E-05	282	0.00E+00
258.	43	2.53E-04	103	2.97E-04	223	3.40E-05	283	2.12E-05
264.	44	0.00E+00	104	2.32E-04	224	4.15E-05	284	4.59E-06
270.	45	0.00E+00	105	0.00E+00	225	4.81E-05	285	1.05E-05
276.	46	1.39E-04	106	1.42E-04	226	3.81E-05	286	0.00E+00
282.	47	1.04E-04	107	6.95E-05	227	0.00E+00	287	0.00E+00
288.	48	1.23E-04	108	0.00E+00	228	0.00E+00	288	9.37E-06
294.	49	3.76E-05	109	2.86E-04	229	7.05E-06	289	2.86E-05
300.	50	7.09E-05	110	2.23E-05	230	0.00E+00	290	6.80E-06
306.	51	4.78E-06	111	2.27E-05	231	4.21E-06	291	0.00E+00
312.	52	6.35E-06	112	0.00E+00	232	0.00E+00	292	6.68E+00
318.	53	0.00E+00	113	1.15E-05	233	0.00E+00	293	0.00E+00
324.	54	1.11E-05	114	1.31E-05	234	0.00E+00	294	0.00E+00
330.	55	1.99E-05	115	1.15E-05	235	0.00E+00	295	0.00E+00
342.	57	3.91E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
348.	58	0.00E+00	118	1.71E-05	238	0.00E+00	298	0.00E+00
354.	59	0.00E+00	119	0.42E-06	239	0.00E+00	299	0.00E+00
360.	60	0.00E+00	120	1.71E-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	618	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	2.46E-04	622	3.42E-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	2.09E-04	634	0.00E+00	644	0.00E+00

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	5.73E-05	660	1.73E-05
7.5	651	2.14E-05	661	3.48E-05
15.0	652	1.55E-05	662	9.62E-05
23.0	653	3.65E-05	663	2.81E-05
30.5	654	2.01E-05	664	3.96E-05

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

GAS R AVERAGE WINDS: SPEED 2.6 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 8.1346 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

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	2.09E-05	660	0.00E+00
7.5	651	1.65E-05	661	1.65E-05
15.0	652	1.58E-06	662	1.48E-04
23.0	653	1.41E-05	663	1.46E-05
30.5	654	7.27E-06	664	1.24E-05

EDCR TEST 7 NRC STAB G 7/22/75 0543-0638 MST

GAS S AVERAGE WINDS: SPEED 8.7 M/S ;DIRECTION 0. DEGREES
SOURCE STRENGTH 0.0896 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
6.	1	8.95E-06	61	5.8JE-06	181	0.00E+00	241	0.00E+00
12.	2	5.91E-06	62	1.74E-06	182	0.00E+00	242	0.00E+00
18.	3	7.75E-06	63	1.50E-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	1.74E-05	68	1.13E-06	188	0.00E+00	248	0.00E+00
54.	9	1.24E-04	69	1.79E-06	189	0.00E+00	249	0.00E+00
60.	10	6.00E+00	70	2.84E-06	190	0.00E+00	250	0.00E+00
66.	11	2.31E-04	71	6.23E-06	191	0.00E+00	251	0.00E+00
72.	12	8.00E+00	72	2.53E-05	192	0.00E+00	252	0.00E+00
78.	13	2.97E-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	3.91E-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	4.10E-07	198	0.00E+00	258	0.00E+00
114.	19	1.69E-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	1.93E-04	01	0.00E+00	201	0.00E+00	261	0.00E+00
132.	22	6.56E-05	02	5.49E-05	202	3.43E-06	262	1.80E-06
138.	23	2.16E-05	03	1.86E-06	203	1.61E-06	263	0.00E+00
150.	25	7.21E-06	05	1.91E-06	205	6.31E-07	265	0.00E+00
156.	26	1.68E-06	06	1.09E-06	206	3.54E-07	266	0.00E+00
162.	27	2.90E-06	07	7.00E-07	207	3.67E-07	267	0.00E+00
168.	28	1.56E-05	08	0.00E+00	208	2.30E-07	268	0.00E+00
174.	29	0.00E+00	09	0.00E+00	209	5.93E-07	269	5.54E-07
180.	30	7.55E-07	90	3.62E-07	210	6.19E-07	270	4.05E-07
186.	31	6.74E-07	91	0.00E+00	211	0.00E+00	271	4.33E-07
192.	32	0.00E+00	92	0.00E+00	212	0.00E+00	272	0.00E+00
198.	33	9.91E-07	93	3.56E-07	213	0.00E+00	273	4.22E-07
204.	34	0.00E+00	94	0.00E+00	214	0.00E+00	274	9.85E-06
210.	35	5.10E-07	95	2.86E+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
234.	39	7.57E-07	99	0.00E+00	219	0.00E+00	279	0.00E+00
240.	40	2.19E-06	100	0.00E+00	220	0.00E+00	280	0.00E+00
246.	41	2.95E-06	101	0.00E+00	221	0.00E+00	281	0.00E+00
252.	42	5.66E-06	102	0.00E+00	222	0.00E+00	282	3.90E-06
258.	43	6.55E-06	103	0.00E+00	223	0.00E+00	283	0.00E+00
264.	44	5.07E-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	5.86E-06	226	0.00E+00	286	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1 GLN	CONC	TOWER 2 GLN	CONC	TOWER 3 GLN	CONC	TOWER 4 GLN	CONC
0.5	610	3.62E-07	620	3.06E-07	630	0.00E+00	640	0.00E+00
7.5	611	1.04E-06	621	1.76E-06	631	9.12E-07	641	2.80E-06
15.0	612	1.70E-05	622	4.34E-07	632	0.00E+00	642	2.06E-06
23.0	613	3.87E-05	623	7.32E-06	633	5.73E-06	643	1.93E-06
30.5	614	0.00E+00	624	0.00E+00	634	0.00E+00	644	3.38E-06

HEIGHT	TOWER 5 GLN	CONC	TOWER 6 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 8.5 M/S ;DIRECTION 0. DEGREES
SOURCE STRENGTH 0.6233 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
6.	1	4.77E-04	61	1.79E-05	181	0.00E+00	241	0.00E+00
12.	2	2.24E-04	62	3.13E-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-07	186	0.00E+00	246	0.00E+00

EDCR TEST 7 NRC STAB G 7/22/75 0543-0638 MST

GAS F AVERAGE WINDS: SPEED 8.5 M/S ;DIRECTION 0. DEGREES
SOURCE STRENGTH 0.6233 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
42.	7	2.44E-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	1.85E-03	73	2.35E-04	193	0.00E+00	253	0.00E+00
84.	14	1.57E-03	74	1.37E-04	194	0.00E+00	254	0.00E+00
90.	15	1.93E-04	75	1.28E-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	3.77E-04	77	1.32E-04	197	0.00E+00	257	0.00E+00
108.	18	0.00E+00	78	2.88E-04	198	0.00E+00	258	0.00E+00
114.	19	1.27E-04	79	2.80E-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	1.13E-06
138.	23	3.57E-06	83	0.00E+00	203	0.00E+00	263	2.25E-06
150.	25	2.84E-06	85	0.00E+00	205	4.11E-07	265	4.17E-07
156.	26	0.00E+00	86	0.00E+00	206	0.00E+00	266	1.25E-06
162.	27	1.30E-06	87	0.00E+00	207	0.00E+00	267	2.35E-06
168.	28	0.00E+00	88	0.00E+00	208	0.00E+00	268	2.45E-06
174.	29	0.00E+00	89	6.43E-07	209	0.00E+00	269	1.55E-07
180.	30	1.18E-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-05	272	8.80E+00
198.	33	4.36E-06	93	0.00E+00	213	3.44E-06	273	5.64E-06
210.	35	2.62E-06	95	0.00E+00	215	0.00E+00	275	4.10E-06
228.	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	3.38E-06
240.	40	3.78E-06	100	0.00E+00	220	0.00E+00	280	3.77E-06
246.	41	1.43E-06	101	0.00E+00	221	0.00E+00	281	1.16E-06
252.	42	9.87E-06	102	0.00E+00	222	0.00E+00	282	3.39E-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	1.38E-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	1.87E-06
294.	49	1.56E-04	109	1.20E-05	229	0.00E+00	289	0.00E+00
306.	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	3.76E-04	113	3.47E-05	233	0.00E+00	293	0.00E+00

EDCR TEST 7 NRC STAB G 7/22/75 0543-0638 MST

GAS F AVERAGE WINDS: SPEED 8.5 M/S ;DIRECTION 0. DEGREES
SOURCE STRENGTH 0.6233 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
324.	54	4.54E-04	114	4.53E-05	234	0.00E+00	294	0.00E+00
330.	55	4.14E-04	115	2.42E-05	235	0.00E+00	295	0.00E+00
336.	56	5.83E-04	116	4.39E-05	236	0.00E+00	296	0.00E+00
342.	57	0.00E+00	117	1.02E-05	237	0.00E+00	297	0.00E+00
348.	58	4.39E-04	118	3.18E-05	238	0.00E+00	298	0.00E+00
354.	59	3.29E-04	119	3.14E-05	239	0.00E+00	299	0.00E+00
360.	60	4.40E-04	120	3.42E-05	240	0.00E+00	300	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1 GLN	CONC	TOWER 2 GLN	CONC	TOWER 3 GLN	CONC	TOWER 4 GLN	CONC
7.5	611	2.44E-06	621	3.02E-06	631	0.00E+00	641	0.00E+00
15.0	612	2.44E-06	622	4.16E-06	632	4.23E-06	642	3.93E-06
23.0	613	0.00E+00	623	2.46E-06	633	0.00E+00	643	5.24E-06
30.5	614	0.00E+00	624	0.00E+00	634	6.02E-06	644	3.24E-06

HEIGHT	TOWER 5 GLN	CONC	TOWER 6 GLN	CONC
0.5	650	0.00E+00	660	3.44E-06
7.5	651	0.00E+00	661	2.05E-06

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	GLN	50. M CONC	GLN	100. M CONC	GLN	400. M CONC	GLN	800. M CONC
6.	1	7.54E-06	61	2.94E-06	181	0.00E+00	241	0.00E+00
12.	2	1.12E-05	62	0.00E+00	182	0.00E+00	242	0.00E+00
18.	3	7.29E-05	63	0.00E+00	183	0.00E+00	243	0.00E+00
24.	4	6.73E-06	64	0.00E+00	184	0.00E+00	244	0.00E+00
30.	5	1.21E-05	65	0.00E+00	185	0.00E+00	245	0.00E+00
36.	6	5.07E-06	66	1.02E-05	186	0.00E+00	246	0.00E+00
42.	7	1.28E-04	67	0.00E+00	187	0.00E+00	247	0.00E+00
48.	8	2.41E-05	68	0.00E+00	188	0.00E+00	248	0.00E+00
54.	9	5.70E-05	69	0.00E+00	189	0.00E+00	249	0.00E+00
66.	11	1.14E-04	71	2.76E-06	191	0.00E+00	251	0.00E+00
72.	12	0.00E+00	72	9.95E-06	192	0.00E+00	252	0.00E+00
78.	13	2.25E-04	73	2.85E-05	193	0.00E+00	253	0.00E+00
84.	14	1.39E-04	74	5.17E-05	194	0.00E+00	254	0.00E+00
90.	15	9.81E-05	75	5.68E-05	195	0.00E+00	255	0.00E+00
96.	16	4.94E-04	76	3.23E-05	196	0.00E+00	256	0.00E+00

EDCR TEST 7 HRC STAB G 7/22/75 0543-0638 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	3.83E-05	137	0.00E+00	257	0.00E+00
108.	18	0.84E+00	78	4.09E-05	138	0.00E+00	258	0.00E+00
114.	19	2.45E-04	79	4.10E-05	139	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	1.90E-06
138.	23	2.93E-05	83	1.03E-06	203	0.00E+00	263	3.68E-06
150.	25	1.19E-05	85	3.46E-06	205	1.40E-06	265	2.98E-06
156.	26	3.28E-05	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	3.78E-06	270	7.50E-07
186.	31	0.00E+0	91	7.64E-06	211	1.65E-05	271	2.15E-05
192.	32	0.00E+0	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
228.	38	2.37E-0	98	0.00E+00	218	0.00E+00	278	3.57E-06
240.	40	2.93E-6	100	0.00E+00	220	0.00E+00	280	0.00E+00
246.	41	0.00E+0	101	0.00E+00	221	0.00E+00	281	2.99E-06
252.	42	1.46E-6.	102	0.00E+00	222	0.00E+00	282	2.91E-05
258.	43	8.35E-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-06	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	108	0.00E+00	228	0.00E+00	288	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	3.99E-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	9.74E-06	113	1.09E-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
348.	58	9.28E-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

EDCR TEST 7 HRC STAB G 7/22/75 0543-0638 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	1.83E-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	3.78E-06	660	1.63E-05
7.5	651	0.00E+00	661	6.15E-07

EDCR TEST B NRC STAB F 7/24/78 0349-0417 MST

GAS S AVERAGE WINDS: SPEED 1.8 M/S ;DIRECTION 345. DEGREES
SOURCE STRENGTH 0.8933 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	105	0.00E+00	245	0.00E+00
36.	6	1.47E-05	66	0.00E+00	106	0.00E+00	246	0.00E+00
42.	7	4.85E-05	67	0.00E+00	107	0.00E+00	247	0.00E+00
48.	8	8.05E-05	68	0.00E+00	108	0.00E+00	248	0.00E+00
54.	9	8.61E-05	69	1.33E-06	109	0.00E+00	249	0.00E+00
60.	10	7.95E-05	70	7.24E-06	110	0.00E+00	250	0.00E+00
66.	11	1.51E-04	71	2.95E-06	111	0.00E+00	251	0.00E+00
72.	12	1.79E-04	72	2.50E-05	112	0.00E+00	252	0.00E+00
78.	13	1.16E-04	73	6.51E-05	113	0.00E+00	253	0.00E+00
84.	14	2.00E-04	74	0.00E+00	114	0.00E+00	254	0.00E+00
90.	15	1.85E-04	75	2.40E-04	115	0.00E+00	255	0.00E+00
96.	16	1.54E-04	76	2.10E-04	116	0.00E+00	256	0.00E+00
102.	17	1.41E-04	77	0.00E+00	117	0.00E+00	257	0.00E+00
108.	18	1.18E-04	78	0.00E+00	118	0.00E+00	258	0.00E+00
114.	19	9.37E-05	79	0.00E+00	119	0.00E+00	259	0.00E+00
120.	20	1.77E-04	80	2.59E-05	200	0.00E+00	260	0.00E+00
126.	21	7.79E-05	81	6.62E-05	201	0.00E+00	721	0.00E+00
132.	22	8.45E-05	82	3.71E-06	202	1.47E-05	262	2.08E-06
138.	23	7.47E-05	83	2.29E-05	203	1.30E-05	263	0.00E+00
144.	24	1.17E-05	84	3.13E-05	204	0.00E+00	264	0.00E+00
150.	25	7.72E-05	05	9.76E-06	205	5.94E-06	265	2.15E-06
156.	26	7.68E-05	06	4.35E-05	206	4.42E-06	266	1.14E-06
162.	27	7.25E-05	07	8.31E-05	207	1.65E-06	267	0.00E+00
168.	28	6.81E-05	08	9.52E-05	208	0.00E+00	268	0.00E+00
174.	29	6.95E-05	09	3.25E-05	209	9.31E-07	269	0.00E+00
180.	30	3.90E-05	10	0.00E+00	210	0.00E+00	270	0.00E+00
186.	31	0.00E+00	51	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	2.50E-06	213	0.00E+00	273	0.00E+00
204.	34	3.54E-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
294.	40	0.00E+00	100	0.43E-07	229	0.00E+00	269	0.00E+00

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	618	0.00E+00	620	2.90E-06	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
15.8	612	0.00E+00	622	1.64E-05	632	1.69E-04	642	0.00E+00
23.8	613	0.00E+00	623	1.79E-05	633	1.47E-04	643	0.00E+00
30.5	614	0.00E+00	624	1.35E-05	634	8.40E-06	644	0.00E+00

EDCR TEST B NRC STAB F 7/24/78 0349-0417 MST

GAS F AVERAGE WINDS: SPEED 0.9 M/S ;DIRECTION 305. DEGREES
SOURCE STRENGTH 0.6268 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	90	0.00E+00	212	1.54E-05	272	0.00E+00
198.	33	0.00E+00	93	1.29E-05	213	1.51E-06	273	2.49E-05
204.	34	0.00E+00	94	7.95E-06	214	7.63E-06	274	6.75E-06
210.	35	0.00E+00	95	1.40E-05	215	2.32E-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	0.52E-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	3.87E-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	0.99E-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	4.83E-03	223	0.00E+00	283	0.00E+00
264.	44	2.49E-05	104	5.87E-06	224	0.00E+00	284	0.00E+00
270.	45	1.28E-03	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	4.95E-06	109	3.62E-05	229	0.00E+00	289	0.00E+00
300.	50	1.75E-05	110	7.52E-06	230	0.00E+00	290	0.43E-07
306.	51	5.52E-06	111	1.31E-05	231	0.00E+00	291	0.00E+00
312.	52	7.87E-06	112	6.95E-06	232	0.00E+00	292	0.00E+00
324.	54	1.33E-06	114	1.31E-05	234	0.00E+00	294	0.00E+00
330.	55	1.16E-05	115	4.58E-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	1.58E-05	238	0.00E+00	298	0.00E+00
354.	59	0.00E+00	119	8.31E-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

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	618	0.00E+00	620	1.29E-05	630	0.00E+00	640	0.00E+00
7.5	611	0.00E+00	621	0.00E+00	631	2.63E-05	641	0.00E+00
15.8	612	0.00E+00	622	0.00E+00	632	5.97E-05	642	0.00E+00
23.8	613	0.00E+00	623	0.00E+00	633	1.63E-05	643	0.00E+00
30.5	614	0.00E+00	624	0.22E-06	634	6.20E-06	644	0.00E+00

EDCR TEST B NRC STAB F 7/24/78 0349-0417 MST

GAS S AVERAGE WINDS: SPEED 1.8 M/S ;DIRECTION 345. DEGREES
SOURCE STRENGTH 0.8933 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
15.8	652	8.18E-05	662	2.22E-06
23.8	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	101	0.00E+00	241	0.00E+00
12.	2	1.15E-06	62	0.00E+00	102	0.00E+00	242	0.00E+00
18.	3	6.22E-06	63	5.33E-06	103	0.00E+00	243	0.00E+00
24.	4	7.76E-05	64	9.95E-06	104	0.00E+00	244	0.00E+00
30.	5	1.72E-03	65	2.06E-05	105	0.00E+00	245	0.00E+00
36.	6	5.78E-03	66	4.60E-05	106	0.00E+00	246	0.00E+00
42.	7	4.34E-03	67	1.01E-05	107	0.00E+00	247	0.00E+00
48.	8	4.87E-03	68	6.00E-06	108	0.00E+00	248	0.00E+00
54.	9	5.06E-03	69	5.72E-05	109	0.00E+00	249	0.00E+00
60.	10	4.35E-03	70	7.58E-05	110	0.00E+00	250	0.00E+00
66.	11	4.36E-03	71	3.41E-05	111	0.00E+00	251	0.00E+00
72.	12	5.15E-03	72	3.97E-04	112	0.00E+00	252	0.00E+00
78.	13	3.51E-03	73	5.93E-04	113	0.00E+00	253	0.00E+00
84.	14	4.12E-03	74	0.00E+00	114	0.00E+00	254	0.00E+00
90.	15	9.88E-04	75	4.36E-04	115	0.00E+00	255	0.00E+00
96.	16	4.68E-04	76	2.92E-04	116	0.00E+00	256	0.00E+00
102.	17	4.87E-04	77	0.00E+00	117	0.00E+00	257	0.00E+00
108.	18	1.93E-04	78	0.00E+00	118	0.00E+00	258	0.00E+00
114.	19	5.18E-04	79	0.00E+00	119	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	7.76E-05	83	2.72E-04	203	2.94E-05	263	0.00E+00
144.	24	6.39E-05	84	3.67E-04	204	1.54E-05	264	0.00E+00
150.	25	1.98E-05	85	6.02E-05	205	3.59E-06	265	3.10E-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	1.98E-05	208	1.21E-05	268	0.00E+00
174.	29	6.52E-06	89	9.29E-06	209	2.71E-06	269	0.00E+00
180.	30	1.59E-06	90	0.00E+00	210	1.91E-05	270	4.65E-06
186.	31	0.00E+00	91	1.38E-05	211	0.00E+00	271	5.57E-06

EDCR TEST B NRC STAB F 7/24/78 0349-0417 MST

GAS B 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
18.	3	8.50E-05	63	2.43E-03	183	0.00E+00	243	0.00E+00
24.	4	0.00E+00	64	2.41E-06	184	0.00E+00	244	0.00E+00
30.	5	0.00E+00	65	1.13E-05	185	0.00E+00	245	0.00E+00
36.	6	0.00E+00	66	2.09E-05	186	0.00E+00	246	0.00E+00
42.	7	2.71E-05	67	4.47E-04	187	0.00E+00	247	0.00E+00
48.	8	3.63E-05	68	1.60E-05	188	0.00E+00	248	0.00E+00
54.	9	5.61E-05	69	1.29E-05	189	0.00E+00	249	0.00E+00
60.	10	5.65E-05	70	0.15E-05	190	0.00E+00	250	0.00E+00
66.	11	1.51E-04	71	7.55E-04	191	0.00E+00	251	0.00E+00
72.	12	1.35E-04	72	2.34E-05	192	0.00E+00	252	0.00E+00
78.	13	9.81E-05	73	2.63E-04	193	0.00E+00	253	0.00E+00
84.	14	1.92E-04	74	0.00E+00	194	0.00E+00	254	0.00E+00
90.	15	3.94E-04	75	2.32E-04	195	0.00E+00	255	0.00E+00
96.	16	2.39E-04	76	3.61E-04	196	0.00E+00	256	0.00E+00
102.	17	2.18E-04	77	0.00E+00	197	0.00E+00	257	0.00E+00
108.	18	1.71E-04	78	0.00E+00	198	0.00E+00	258	0.00E+00
114.	19	2.16E-04	79	0.00E+00	199	0.00E+00	259	0.00E+00
120.	20	2.14E-04	80	8.45E-05	200	0.00E+00	260	0.00E+00
126.	21	1.30E-04	81	7.43E-04	201	0.00E+00	261	0.00E+00
132.	22	1.37E-04	82	2.75E-07	202	5.46E-05	262	1.75E-05
138.	23	1.55E-04	83	5.45E-05	203	0.00E+00	263	0.00E+00
144.	24	1.17E-04	84	7.82E-05	204	1.09E-03	264	0.00E+00
150.	25	1.45E-04	85	1.01E-03	205	2.11E-05	265	1.56E-05
156.	26	1.79E-04	86	1.39E-04	206	2.10E-05	266	0.00E+00
162.	27	2.03E-04	87	1.14E-04	207	1.43E-06	267	0.00E+00
168.	28	1.68E-04	88	5.01E-03	208	8.44E-04	268	0.00E+00
174.	29	1.15E-04	89	1.58E-03	209	2.03E-05	269	0.00E+00
180.	30	2.10E-04	90	0.00E+00	210	6.35E-05	270	1.09E-04
186.	31	0.00E+00	91	5.09E-04	211	0.00E+00	271	7.40E-05
192.	32	2.00E-05	92	0.00E+00	212	1.03E-05	272	0.00E+00

EDOR TEST 8 NRC STAB F 7/24/78 0140-0417 MST

GAS 8 AVERAGE WINDS: SPEED 1.0 M/S ;DIRECTION 345. DEGREES
SOURCE STRENGTH 8.1354 GM/S RELEASED ROOF

DOWNWIND DISTANCE(NRC) SAMPLES

BEARING	SR. 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	270	2.95E-05
222.	37	2.62E-03	97	2.33E-05	217	0.00E+00	277	4.40E-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	1.09E-04	280	7.06E-05
246.	41	0.00E+00	101	4.67E-06	221	0.00E+00	281	0.00E+00
252.	42	1.73E-05	102	9.84E-04	222	0.00E+00	282	0.00E+00
258.	43	4.81E-05	103	0.00E+00	223	0.00E+00	283	0.00E+00
264.	44	5.50E-06	104	1.15E-04	224	0.00E+00	284	0.00E+00
270.	46	1.96E-04	106	0.00E+00	226	0.00E+00	285	0.00E+00
282.	47	2.15E-03	107	0.00E+00	227	0.00E+00	287	0.00E+00
288.	48	1.83E-05	108	5.09E-04	228	0.00E+00	288	0.00E+00
300.	50	3.91E-03	110	3.09E-04	230	0.00E+00	290	0.00E+00
306.	51	4.57E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
312.	53	0.00E+00	113	1.17E-03	233	0.00E+00	293	0.00E+00
324.	54	1.36E-04	114	0.00E+00	234	0.00E+00	294	0.00E+00
330.	55	2.35E-05	115	1.54E-05	235	0.00E+00	295	0.00E+00
336.	56	4.68E-03	116	7.65E-06	236	0.00E+00	296	0.00E+00
342.	57	1.40E-05	117	1.03E-03	237	0.00E+00	297	0.00E+00
348.	58	0.00E+00	118	4.30E-05	238	0.00E+00	298	0.00E+00
354.	59	2.93E-03	119	7.22E-06	239	0.00E+00	299	0.00E+00
360.	60	4.23E-05	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	3.56E-05	663	1.07E-04
30.5	654	2.58E-05	664	1.58E-03

EDCP TEST 9 NRC STAB G 7/28/78 0503-0603 MST

GAS G AVERAGE WINDS: SPEED 4.1 M/S ;DIRECTION 31. DEGREES
SOURCE STRENGTH 0.1816 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	1.78E-05	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	3.95E-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	1.79E-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	1.85E-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	2.78E-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	1.80E-04	212	0.00E+00	272	0.00E+00
198.	33	0.00E+00	93	9.33E-05	213	1.50E-05	273	5.60E-06
204.	34	0.00E+00	94	7.68E-05	214	0.00E+00	274	2.21E-05
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	1.38E-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	3.83E-06	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	2.18E-06	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	1.12E-06	224	4.23E-07	284	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	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
72.	12	0.00E+00	72	5.28E-05	192	4.07E-05	252	0.00E+00
78.	13	0.00E+00	73	8.09E-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	5.79E-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	2.63E-04	200	5.82E-05	260	7.36E-06

EDCP TEST 9 NRC STAB G 7/28/78 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	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
126.	21	0.00E+00	81	5.17E-04	201	6.35E-05	261	1.86E-05
132.	22	0.00E+00	82	6.91E-04	202	3.21E-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	6.03E-04	205	7.25E-05	265	3.10E-05
156.	26	0.00E+00	86	5.53E-04	206	6.38E-05	266	2.69E-06
162.	27	0.00E+00	87	4.32E-04	207	4.45E-05	267	9.85E-06
168.	28	0.00E+00	88	3.34E-04	208	0.00E+00	268	6.13E-06
174.	29	0.00E+00	89	2.63E-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	0.83E-05
192.	32	0.00E+00	92	2.83E-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	1.58E-04	214	0.00E+00	274	0.00E+00
210.	35	0.00E+00	95	9.68E-05	215	5.90E-05	275	5.80E-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	9.82E-06
234.	39	0.00E+00	99	1.64E-04	219	2.98E-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	1.82E-05
264.	44	0.00E+00	104	3.68E-05	224	5.68E-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	4.58E-05	226	1.92E-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-05	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	1.28E-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	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	3.20E-05
102.	17	0.00E+00	77	1.62E-05	197	0.00E+00	257	0.00E+00
108.	18	0.00E+00	78	1.62E-05	198	0.00E+00	258	0.00E+00
114.	19	0.00E+00	79	4.94E-06	199	0.00E+00	259	4.18E-05
120.	20	0.00E+00	80	0.00E+00	200	2.75E-05	260	0.00E+00

EDCP TEST 9 NRC STAB G 7/28/78 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	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
126.	21	0.00E+00	81	1.34E-05	201	0.00E+00	261	5.75E-05
132.	22	0.00E+00	82	5.86E-05	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	7.09E-05	203	2.13E-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	1.83E-04	209	0.00E+00	269	2.66E-05
180.	30	0.00E+00	90	1.91E-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	9.35E-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	0.48E-06	275	5.80E-06
222.	37	0.00E+00	97	7.35E-05	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	1.72E-03	218	0.00E+00	278	5.10E-05
234.	39	0.00E+00	99	1.33E-05	219	0.00E+00	279	5.78E-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

EDCR TEST 10 NRC STNB A 7/31/75 1024-1107 MST

GAS S AVERAGE WINDS: SPEED 3.0 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	5.04E-06	242	0.00E+00
18.	3	0.00E+00	63	3.23E-05	183	3.95E-06	243	0.00E+00
24.	4	0.00E+00	64	0.00E+00	184	9.36E-06	244	0.00E+00
30.	5	0.00E+00	65	7.53E-05	185	7.61E-06	245	1.85E-06
36.	6	0.00E+00	66	7.23E-05	186	7.13E-06	246	5.67E-07
42.	7	0.00E+00	67	1.41E-04	187	4.40E-06	247	0.00E+00
48.	8	0.00E+00	68	1.63E-04	188	8.68E+00	248	0.00E+00
54.	9	0.00E+00	69	2.40E-04	189	1.17E-05	249	1.61E-06
60.	10	0.00E+00	70	0.00E+00	190	7.03E-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	1.56E-06	252	0.00E+00
78.	13	0.00E+00	73	0.00E+00	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	4.18E-06	195	0.00E+00	255	0.00E+00
102.	17	0.00E+00	77	1.82E-06	197	0.00E+00	257	0.00E+00
252.	42	0.00E+00	102	2.06E-06	222	0.00E+00	282	0.00E+00
300.	50	0.00E+00	110	1.75E-06	230	0.00E+00	290	0.00E+00
306.	51	0.00E+00	111	2.74E-06	231	0.00E+00	291	0.00E+00
312.	52	0.00E+00	112	1.00E-05	232	0.00E+00	292	0.00E+00
318.	53	0.00E+00	113	2.53E-05	233	2.09E-06	293	0.00E+00
324.	54	0.00E+00	114	9.64E-06	234	3.79E-06	294	0.00E+00
330.	55	0.00E+00	115	3.66E-05	235	0.00E+00	295	0.00E+00
336.	56	0.00E+00	116	2.56E-05	236	0.00E+00	296	0.00E+00
342.	57	0.00E+00	117	7.09E-05	237	3.13E-06	297	0.00E+00
348.	58	0.00E+00	118	5.12E-05	238	0.00E+00	298	0.00E-07
354.	59	0.00E+00	119	1.30E-04	239	2.21E-06	299	2.74E-06
360.	60	0.00E+00	120	0.93E-05	240	1.99E-05	300	0.00E+00

GAS F AVERAGE WINDS: SPEED 0.0 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	1.18E-06	241	5.85E-07
12.	2	0.00E+00	62	0.00E+00	182	0.75E-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	3.41E-06
30.	5	0.00E+00	65	4.66E-05	185	3.40E-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	0.59E-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

EDCR TEST 10 NRC STNB A 7/31/75 1024-1107 MST

GAS F AVERAGE WINDS: SPEED 0.0 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	2.20E-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	4.56E-07	253	0.00E+00
84.	14	0.00E+00	74	1.37E-06	194	6.96E-07	254	0.00E+00
90.	15	0.00E+00	75	1.30E-05	195	0.65E-07	255	0.00E+00
96.	16	0.00E+00	76	5.76E-06	196	7.90E-06	256	0.00E+00
102.	17	0.00E+00	77	3.60E-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-05	199	0.30E-06	259	0.00E+00
120.	20	0.00E+00	80	4.03E-05	200	5.32E-06	260	0.00E+00
126.	21	0.00E+00	81	2.20E-05	201	1.14E-05	261	0.00E+00
246.	41	0.00E+00	101	0.17E-06	221	0.00E+00	281	0.00E+00
252.	42	0.00E+00	102	1.64E-06	222	0.00E+00	282	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	0.00E-06
276.	46	0.00E+00	106	0.00E+00	226	3.93E-06	286	0.00E+00
282.	47	0.00E+00	107	2.65E-06	227	0.00E+00	287	6.66E-07
294.	49	0.00E+00	109	5.73E-06	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	0.00E+00	230	0.00E+00	290	9.30E-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	1.05E-05
318.	53	0.00E+00	113	7.03E-06	233	2.70E-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	4.08E-05	295	9.20E-06
336.	56	0.00E+00	116	1.73E-05	236	1.15E-06	296	1.36E-06
342.	57	0.00E+00	117	3.60E-05	237	3.09E-06	297	0.00E+00
348.	58	0.00E+00	118	2.01E-05	238	0.00E+00	298	2.20E-06
354.	59	0.00E+00	119	3.61E-05	239	7.21E-06	299	0.00E+00
360.	60	0.00E+00	120	2.47E-05	240	1.93E-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	7.60E-05	183	9.40E-06	243	0.00E+00
24.	4	0.77E+00	64	4.90E-05	184	0.00E+00	244	0.00E+00
30.	5	0.00E+00	65	2.04E-05	185	2.49E-05	245	0.00E+00
36.	6	0.00E+00	66	2.50E-05	186	0.00E+00	246	0.00E+00

EDCP TEST 11 NRC STNB A 8/12/75 1000-1035 MST

GAS S AVERAGE WINDS: SPEED 1.5 M/S ;DIRECTION 82. DEGREES
SOURCE STRENGTH 0.2184 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	9.49E-07	184	0.00E+00	244	0.00E+00	
54.	7	0.00E+00	69	2.00E-07	189	0.00E+00	249	0.00E+00	
68.	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	1.04E-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	1.19E-07	197	0.00E+00	257	0.00E+00	
114.	19	5.61E-07	79	3.38E-06	199	0.00E+00	259	0.00E+00	
120.	20	0.00E+00	80	0.46E-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	
138.	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	8.96E-07	205	0.00E+00	265	0.00E+00	
156.	26	0.00E+00	86	7.07E-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-06	213	0.00E+00	273	0.00E+00	
204.	34	7.76E-07	94	7.50E-07	214	1.07E-07	274	0.00E+00	
216.	36	0.00E+00	96	1.26E-06	216	0.00E+00	276	0.00E+00	
222.	37	2.45E-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	6.20E+00	
246.	41	0.00E+00	101	1.62E-06	221	0.00E+00	281	0.00E+00	
252.	43	0.00E+00	102	5.33E-06	222	7.20E-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	0.27E-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	6.65E-09	
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	1.81E-06	229	7.26E+00	289	0.00E+00	
300.	50	0.00E+00	110	2.50E-07	230	1.66E-07	290	0.00E+00	
306.	51	0.00E+00	111	7.48E-08	231	0.00E+00	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	

EDCP TEST 11 NRC STNB A 8/12/75 1000-1035 MST

GAS S AVERAGE WINDS: SPEED 1.5 M/S ;DIRECTION 82. DEGREES
SOURCE STRENGTH 0.2184 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	2.40E-07	115	1.17E-07	235	0.00E+00	295	0.00E+00	
348.	58	9.29E-07	118	0.00E+00	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-06	630	0.00E+00	640	0.00E+00
7.5	611	6.79E-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-08	642	0.00E+00
23.0	613	0.00E+00	623	1.43E-05	633	4.45E-06	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	2.00E-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 F 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	1.50E-05	64	1.26E-05	184	1.12E-05	244	1.00E-05	
30.	5	0.00E+00	65	7.94E-06	185	2.19E-05	245	2.40E-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	

EDCP TEST 11 NRC STNB A 8/12/75 1000-1035 MST

GAS F 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	
306.	51	0.00E+00	111	8.73E-06	231	4.66E-06	291	0.00E+00	
312.	52	1.41E-05	112	7.03E-06	232	5.49E-06	292	2.03E-06	
318.	53	0.00E+00	113	9.45E-06	233	1.95E-05	293	7.66E-06	
324.	54	0.00E+00	114	0.46E-06	234	9.65E-06	294	1.77E-05	
330.	55	4.71E-06	115	1.30E-05	235	0.00E+00	295	0.00E+00	
336.	56	0.00E+00	116	1.72E-05	236	1.94E-05	296	5.83E-06	
342.	57	0.00E+00	117	9.91E-06	237	1.57E-05	297	1.05E-05	
348.	58	5.35E-06	118	3.46E-05	238	2.46E-05	298	7.57E-06	
354.	59	0.00E+00	119	1.39E-05	239	1.84E-05	299	1.97E-05	
360.	60	0.00E+00	120	0.78E-06	240	7.52E-06	300	1.96E-05	

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	1.58E-05	620	3.06E-05	630	1.90E-05	640	2.77E-05
7.5	611	1.24E-04	621	2.21E-05	631	6.19E-06	641	0.00E+00
15.0	612	5.37E-05	622	5.45E-05	632	1.44E-05	642	0.00E+00
23.0	613	7.80E-06	623	5.66E-05	633	1.79E-04	643	0.00E+00
30.5	614	2.77E-05	624	4.75E-05	634	0.76E-05	644	0.00E+00

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	7.52E-05	660	2.45 -05
7.5	651	4.66E-05	661	1.21E-05
15.0	652	9.75E-05	662	1.03E-04
23.0	653	1.86E-05	663	1.18E-05
30.5	654	4.46E-05	664	2.50E-05

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	1.81E-04
702	7.87E-03
703	2.30E-04
704	1.38E-05

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

GAS A AVERAGE WINDS: SPEED 1.5 M/S ;DIRECTION 92. 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	9.09E-05	61	0.00E+00	181	0.00E+00	24[illegible]	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+[illegible]	250	0.00E+00
78.	13	2.15E-04	73	2.32E-06	193	0.00E+[illegible]	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	25[illegible]	0.00E+00
114.	19	2.45E-05	79	0.00E+00	199	0.00E+00	259	0.[illegible]+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
156.	26	1.26E-06	85	1.14E-06	205	0.00E+00	265	1.41E-07
162.	27	0.00E+00	87	4.06E-07	207	0.00E+00	267	0.00E+00
[illegible]	29	0.00E+00	89	1.24E-06	209	0.00E+00	269	0.00E+00
[illegible]	30	0.00E+00	90	5.13E-07	210	0.00E+00	2[illegible]	0.00E+00
186.	31	9.97E-07	91	1.32E-06	211	0.00E+00	[illegible]71	0.00E+00
192.	32	0.00E+00	92	0.67E-06	212	0.00E+00	[illegible]	[illegible]
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	21[illegible]	0.00E+00	277	0.00E+00
252.	42	0.00E+00	102	4.08E-07	222	0.00E+00	282	0.00E+00
258.	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-0[illegible]	227	0.00E+00	287	0.00E+00
294.	49	6.74E-07	109	2.61E-06	[illegible]9	0.00E+00	289	0.00E+00
[illegible]	52	1.97E-07	112	0.00E+00	[illegible]	[illegible]	292	0.[illegible]+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
348.	58	1.91E-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-05	632	0.00E+00	642	0.00E+00
23.0	[illegible]	0.00E+00	623	1.78E-06	633	0.00E+00	643	0.00E+00
30.5	614	8.81E-07	624	1.61E-05	634	0.00E+00	644	0.00E [illegible]

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC

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

GAS B AVERAGE WINDS: SPEED 1.5 M/S ;DIRECTION 92. DEGREES
SOURCE STRENGTH 0.0905 GM/S RELEASED GROUND

MISCELLANEOUS SAMPLES

GROUP 1

GLN	CONC
701	8.30E-06
703	4.52E-05
704	1.54E-05

POOR ORIGINAL

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

GAS S 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	8.57E-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	1.98E-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	0.46E-07	630	0.00E+00	640	1.31E-05
7.5	611	6.56E-06	621	1.77E-06	631	7.56E-06	641	0.00E+00
15.0	612	7.00E-06	622	1.27E-05	632	3.15E-06	642	0.00E+00
23.0	613	0.00E+00	623	3.33E-05	633	1.60E-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	0.46E-07
7.5	651	7.14E-06	661	5.87E-06
23.0	653	1.29E-06	663	7.59E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC

GAS F AVERAGE WINDS: SPEED 3.4 M/S ;DIRECTION 42. DEGREES
SOURCE STRENGTH 0.6284 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	1.87E-04	61	0.00E+00	101	0.00E+00	241	0.00E+00
24.	4	1.00E-04	64	0.00E+00	104	0.00E+00	244	0.00E+00
42.	7	2.84E-05	67	0.00E+00	107	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	1.86E-05	79	0.00E+00	199	0.00E+00	259	0.00E+00

EDCR 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 0.6284 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	1.18E-05	662	1.21E-05
23.0	653	7.23E-06	663	1.39E-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-05

GAS 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	101	0.00E+00	241	0.00E+00
24.	4	2.34E-05	64	0.00E+00	104	0.00E+00	244	0.00E+00
42.	7	6.87E-05	67	0.00E+00	107	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
136.	23	0.00E+00	83	7.98E-07	203	0.00E+00	263	0.00E+00
150.	25	1.60E-04	65	0.00E+00	205	0.00E+00	265	0.00E+00
162.	27	0.00E+00	87	5.82E-07	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	6.17E-06	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	2.05E-05	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	4.29E-05	210	0.00E+00	270	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	4.07E-05	212	2.50E-06	272	1.92E-06
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	1.02E-06
210.	35	0.00E+00	95	4.03E-05	215	5.34E-06	275	0.00E+00
216.	36	0.00E+00	96	2.05E-05	216	2.18E-06	276	2.83E-06
222.	37	4.47E-05	97	1.76E-05	217	4.84E-06	277	0.00E+00
228.	38	0.00E+00	98	2.05E-05	218	0.00E+00	278	0.00E+00

EDCR 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 0.6284 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	5.38E-05	202	4.42E-05	262	1.18E-05
138.	23	0.00E+00	83	1.83E-05	203	2.23E-05	263	5.39E-06
144.	24	0.00E+00	84	3.72E-05	204	1.63E-05	264	2.38E-05
150.	25	1.28E-05	85	0.00E+00	205	2.91E-05	265	5.00E-06
156.	26	0.00E+00	86	4.01E-05	206	2.53E-05	266	2.60E-05
162.	27	0.00E+00	87	2.93E-05	207	7.84E-06	267	0.73E-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	2.27E-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	5.00E-05
192.	32	0.00E+00	92	7.84E-05	212	3.86E-05	272	9.58E-05
198.	33	0.00E+00	93	7.64E-05	213	4.7?E-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	1.00E-04	277	4.38E 05
228.	38	0.00E+00	98	7.58E-05	218	5.14E-05	278	0.00E+00
234.	39	0.00E+00	99	7.16E-05	219	8.86E-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	5.98E-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	0.93E-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	,.9E-05
294.	49	0.00E+00	109	1.53E-05	229	6.71E-06	289	,.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	5.00E-.6	291	2.90E-05
312.	52	1.64E-05	112	0.00E+00	232	0.00E+00	292	0.00E+00
330.	55	1.59E-05	115	0.00E+00	235	0.00E+00	295	0.00E+00
348.	58	1.09E-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	2.17E-05	620	7.64E-05	630	4.42E-05	640	1.33E-04
7.5	611	1.18E-05	621	1.00E-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	6.64E-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

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

GAS 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
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
276.	46	6.01E-06	106	0.00E+00	226	0.00E+00	286	0.00E+00
294.	49	2.29E-06	109	0.00E+00	229	0.00E+00	289	0.00E+00
312.	52	3.82E-06	112	0.00E+00	232	0.00E+00	292	0.00E+00
330.	55	4.72E-06	115	0.00E+00	235	0.00E+00	295	0.00E+00
348.	58	1.27E-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	4.29E-05	620	0.00E+00	630	0.00E+00	640	1.79E-05
7.5	611	3.33E-05	621	2.07E-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

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	0.00E+00	660	1.47E-05
7.5	651	0.00E+00	661	6.46E-06
,J.0	653	0.00E+00	663	3.25E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	2.72E-05
702	3.68E-04
703	1.29E-06

EDCR TEST I3 NRC STAB A 8/14/75 1817-1117 MST

GAS S AVERAGE WINDS: SPEED 2.1 M/S ;DIRECTION 22. DEGREES
SOURCE STRENGTH 0.8581 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
88.	10	1.75E-06	76	8.69E+00	198	1.84E-06	256	8.20E-08
92.	12	0.00E+00	72	0.00E+00	192	0.00E+00	252	3.69E-07
96.	13	1.35E-06	73	0.00E+00	193	2.33E-07	253	4.48E-06
98.	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	2.96E-07	257	3.81E-08
100.	18	0.00E+00	78	2.59E-06	198	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	3.38E-07	200	0.00E+00	260	7.50E-07
126.	21	0.00E+00	81	0.00E+00	201	0.00E+00	261	1.66E-07
132.	22	1.23E-05	82	2.16E-06	202	4.10E-07	262	8.57E-07
136.	23	0.00E+00	83	3.92E-06	203	2.89E-07	263	0.00E+00
144.	24	0.00E+00	84	1.06E-05	204	4.25E-07	264	0.00E+00
150.	25	2.68E-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	7.77E-08
168.	28	5.16E-05	88	1.58E-05	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	4.62E-05	209	1.48E-06	269	0.00E+00
180.	30	0.00E+00	90	1.03E-05	210	0.00E+00	270	2.51E-07
186.	31	6.70E-06	91	1.59E-05	211	5.94E-07	271	0.00E+00
192.	32	0.00E+00	92	1.52E-05	212	7.39E-07	272	9.91E-07
196.	33	0.00E+00	93	1.23E-05	213	5.43E-07	273	4.78E-07
204.	34	1.40E-06	94	4.35E-06	214	2.15E-07	274	9.31E-0*
210.	35	0.00E+00	95	3.63E-06	215	0.00E+00	275	0.00E+00
216.	36	0.00E+00	96	4.13E-06	216	5.66E-07	276	5.31E-07
222.	37	7.51E-06	97	0.00E+00	217	6.65E-07	277	0.00E+00
228.	38	0.00E+00	98	4.84E-06	218	2.01E-05	278	5.59E-07
234.	39	0.00E+00	99	3.55E-06	219	2.57E-06	279	0.00E+00
240.	40	9.57E-06	100	4.90E-06	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	9.36E-06	221	6.25E-07	281	1.67E-06
252.	42	0.00E+00	102	2.09E+00	222	7.54E-06	282	0.00E+00
258.	43	2.33E-06	103	3.39E-06	223	2.71E-07	283	6.50E-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-06	225	0.00E+00	285	4.47E-07
276.	46	2.52E-06	106	4.51E-06	226	0.00E+00	286	2.97E-06
282.	47	0.00E+00	107	5.99E-06	227	3.63E-07	287	7.03E-07
288.	48	0.00E+00	108	5.95E-06	228	5.09E-07	288	0.00E+00
294.	49	1.13E-06	109	4.05E-06	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	7.75E-07	230	6.63E-07	290	2.13E-07
306.	51	0.00E+00	111	4.48E-07	231	0.00E+00	291	0.52E-07
312.	52	1.36E-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
324.	54	6.72E-06	114	5.24E-07	234	0.00E+00	294	0.00E+00

EDCR TEST I3 NRC STAB A 8/14/75 1817-1117 MST

GAS F AVERAGE WINDS: SPEED 1.9 M/S ;DIRECTION 26. DEGREES
SOURCE STRENGTH 0.5600 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
72.	12	0.00E+00	72	7.41E-05	192	8.60E-05	252	6.36E-05
78.	13	2.69E-05	73	1.08E-04	193	2.40E-05	253	1.31E-04
84.	14	0.00E+00	74	5.90E-05	194	0.00E+00	254	0.00E+00
90.	15	0.00E+00	75	6.17E-05	195	0.00E+00	255	5.62E-05
96.	16	3.32E-05	76	1.31E-04	196	3.15E-05	256	4.45E-05
102.	17	0.00E+00	77	8.19E-05	197	3.13E-05	257	5.82E-05
108.	18	0.00E+00	78	4.64E-05	198	0.00E+00	258	3.91E-05
114.	19	4.93E-05	79	5.48E-05	199	0.00E+00	259	7.10E-05
120.	20	0.00E+00	80	9.23E-05	200	9.24E-05	260	8.78E-05
126.	21	0.00E+00	81	6.51E-05	201	0.00E+00	261	3.24E-05
132.	22	3.07E-05	82	1.09E-05	202	1.66E-05	262	2.75E-04
138.	23	0.00E+00	83	1.60E-05	203	1.40E-05	263	1.16E-05
144.	24	0.00E+00	84	3.09E-05	204	1.04E-05	264	1.60E-05
150.	25	9.42E-05	85	1.97E-05	205	1.92E-05	265	1.58E-05
156.	26	0.00E+00	86	2.40E-05	206	1.12E-05	266	2.10E-05
162.	27	0.00E+00	87	4.41E-05	207	1.47E-05	267	7.60E-06
168.	28	1.15E-04	88	4.93E-05	208	0.00E+00	268	0.04E-06
174.	29	0.00E+00	89	6.36E-05	209	1.06E-05	269	0.00E+00
180.	30	0.00E+00	90	5.47E-05	210	1.68E-05	270	9.90E-06
186.	31	1.30E-04	91	8.10E-05	211	9.11E-06	271	1.48E-05
192.	32	0.00E+00	92	9.43E-05	212	1.60E-05	272	4.61E-05
198.	33	0.00E+00	93	5.00E-05	213	1.40E-05	273	2.40E-05
204.	34	1.28E-04	94	5.98E-05	214	1.12E-05	274	3.36E-05
210.	35	0.00E+00	95	9.81E-05	215	0.00E+00	275	1.60E-05
216.	36	0.00E+00	96	9.35E-05	216	3.70E-05	276	1.66E-05
222.	37	1.11E-04	97	0.00E+00	217	1.20E-05	277	1.15E-05
228.	38	0.00E+00	98	5.07E-05	218	3.66E-05	278	7.28E-05
234.	39	0.00E+00	99	6.73E-05	219	1.63E-05	279	0.00E+00
240.	40	6.64E-05	100	6.59E-05	220	6.00E+00	280	2.14E-05
246.	41	0.00E+00	101	0.87E-05	221	1.15E-05	281	5.20E-05
252.	42	0.00E+00	102	0.00E+00	222	3.10E-05	282	1.09E-05
258.	43	9.84E-05	103	6.06E-05	223	9.91E-06	283	2.62E-05
264.	44	0.00E+00	104	7.81E-05	224	1.22E-05	284	0.00E+00
270.	45	0.00E+00	105	9.42E-05	225	9.90E-06	285	3.65E-05
276.	46	3.55E-05	106	0.09E-05	226	1.19E-05	286	1.70E-04
282.	47	0.00E+00	107	1.06E-04	227	1.15E-05	287	2.03E-05
288.	48	0.00E+00	108	6.36E-05	228	0.21E-06	288	8.61E-06
294.	49	2.56E-05	109	6.41E-05	229	0.00E+00	289	1.25E-05
300.	50	0.00E+00	110	3.29E-05	230	6.90E-06	290	2.36E-05
306.	51	0.00E+00	111	1.24E-05	231	0.00E+00	291	9.25E-05
312.	52	4.78E-05	112	1.05E-05	232	1.51E-05	292	0.00E+00
318.	53	0.00E+00	113	2.17E-05	233	0.00E+00	293	2.29E-05
324.	54	0.00E+00	114	3.03E-05	234	3.11E-05	294	3.90E-05

EDCR TEST I3 NRC STAB A 8/14/75 1817-1117 MST

GAS S AVERAGE WINDS: SPEED 2.1 M/S ;DIRECTION 22. DEGREES
SOURCE STRENGTH 0.8581 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
336.	56	0.00E+00	116	1.02E-07	236	0.00E+00	296	1.00E-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	1.00E-05	620	1.23E-05	630	1.61E-06	640	2.15E-06
7.5	611	0.00E+00	621	3.25E-05	631	1.15E-06	641	0.00E+00
15.0	612	0.00E+00	622	1.46E-05	C12	0.00E+00	642	3.24E-06
30.5	614	0.00E+00	624	9.41E-06	634	2.18E-06	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	0.00E+00
23.0	653	2.50E-07	663	0.21E-07
30.5	654	3.52E-0*	664	4.08E-07

MISCELLANEOUS SAMPLES

	GROUP 1
GLN	CONC
701	3.11E-05
702	5.63E-06
703	2.04E-05
704	4.24E-06

GAS F AVERAGE WINDS: SPEED 1.9 M/S ;DIRECTION 26. DEGREES
SOURCE STRENGTH 0.5600 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	1.36E-05	61	2.61E-05	181	8.80E+00	241	1.44E-05
24.	4	2.08E-05	64	0.00E+00	184	0.00E+00	244	9.00E+00
42.	7	3.41E-05	67	0.00E+00	187	0.00E+00	247	0.00E+00
60.	10	2.36E-05	70	0.00E+00	190	3.09E-05	250	0.00E+00
66.	11	0.00E+00	71	0.00E+00	191	1.60E-05	251	0.00E+00

EDCR TEST I3 NRC STAB A 8/14/75 1817-1117 MST

GAS F AVERAGE WINDS: SPEED 1.9 M/S ;DIRECTION 26. DEGREES
SOURCE STRENGTH 0.5600 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
330.	55	4.64E-05	115	2.38E-05	235	2.41E-05	295	2.09E-05
336.	56	0.00E+00	116	2.60E-05	236	3.57E-05	296	3.71E-05
342.	57	0.00E+00	117	0.00E+00	237	2.25E-05	297	1.03E-04
348.	58	8.72E-06	118	2.93E-05	238	2.90E-05	298	2.62E-05
354.	59	0.00E+00	119	5.03E-05	239	3.40E-05	299	2.60E-05
360.	60	0.00E+00	120	3.38E-05	240	0.00E+00	300	1.37E-05

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
0.5	610	6.42E-05	620	9.00E-05	630	3.46E-05	640	5.21E-05
7.5	611	0.00E+00	621	1.09E-04	631	1.49E-05	641	0.00E+00
15.0	612	0.00E+00	622	9.66E-05	632	0.00E+00	642	2.56E-05
30.5	614	0.00E+00	624	7.02E-05	634	2.90E-05	644	0.00E+00

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	1.63E-05	660	1.42E-05
7.5	651	4.70E-05	661	1.37E-05
15.0	652	8.71E-05	662	0.00E+00
23.0	653	1.05E-05	663	1.25E-05
30.5	654	1.06E-05	664	1.06E-05

MISCELLANEOUS SAMPLES

	GROUP 1
GLN	CONC
701	2.76E-04
702	1.59E-04
703	1.07E-04
704	5.87E-05

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
6.	1	3.00E-04	61	0.00E+00	181	0.00E+00	241	0.00E+00
24.	4	5.16E-05	64	0.00E+00	184	0.00E+00	244	0.00E+00
42.	7	9.37E-05	67	0.00E+00	187	0.00E-00	247	0.00E+00
60.	10	1.14E-04	70	0.00E+00	190	0.00E+00	250	0.00E+00

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

GAS 0 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	8.85E-07	196	0.00E+00	256	0.00E+00
108.	18	0.00E+00	78	1.39E-05	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.	23	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	1.73E-05	94	2.40E-06	214	0.00E+00	274	0.00E+00
216.	36	0.00E+00	96	3.71E-06	216	0.00E+00	276	0.00E+00
222.	37	8.51E-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
258.	43	9.01E-06	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
276.	46	1.20E-05	106	2.85E-06	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	3.69E-06	227	0.00E+00	287	0.00E+00
294.	49	7.45E-06	109	4.57E-06	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	1.35E-06	230	0.00E+00	290	0.00E+00
306.	51	0.00E+00	111	3.55E-06	231	0.00E+00	291	0.00E+00
312.	52	1.75E-05	112	0.00E+00	232	0.00E+00	292	0.00E+00
318.	53	0.00E+00	113	0.62E-07	233	0.00E+00	293	0.00E+00
330.	55	4.32E-05	115	0.00E+00	235	0.00E+00	295	0.00E+00
348.	58	6.38E-05	118	0.00E+00	238	0.00E+00	298	0.00E+00

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

GAS 0 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

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	6.14E-05
702	6.17E-05
703	6.76E-05
704	1.91E-04

EDCR 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
180.	17	0.00E+00	77	1.38E-05	197	0.00E+00	257	0.00E+00
128.	20	0.00E+00	80	0.00E+00	200	7.33E-05	260	0.00E+00
126.	21	1.62E-06	81	0.00E+00	201	0.00E+00	261	0.00E+00
156.	25	0.00E+00	85	0.00E+00	205	3.81E-06	265	0.00E+00
162.	27	0.00E+00	87	0.00E+00	207	5.41E-06	267	0.00E+00
168.	28	0.00E+00	88	1.75E-06	208	0.00E+00	268	1.64E-06
174.	29	0.00E+00	89	0.00E+00	209	2.26E-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-06	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
156.	33	2.46E-04	93	0.00E+00	213	0.00E+00	273	0.00E+00
204.	34	0.00E+00	94	9.80E+00	214	0.00E+00	274	1.63E-06
210.	35	0.00E+00	95	9.34E-05	215	2.14E-06	275	0.00E+00
216.	36	4.23E-04	96	1.08E-04	216	0.00E+00	276	9.16E-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	4.54E-06
234.	39	7.63E-04	99	2.01E-05	219	1.14E-05	279	0.00E+00
240.	40	0.00E+00	100	1.36E-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	2.56E-05	102	1.41E-06	222	0.00E+00	282	0.00E+00
264.	44	0.00E+00	104	1.13E-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
306.	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	1.65E-06
183.	361	1.63E-06	481	0.00E+00
186.	362	1.36E-06	482	2.08E+00
192.	364	2.03E-06	484	0.00E+00
216.	372	2.92E-06	492	0.39E+00
219.	373	6.24E-06	493	4.57E-06
222.	374	3.29E-05	494	1.71E-05
225.	375	1.38E-05	495	1.33E-05
233.	376	8.73E-06	496	1.51E-06
234.	378	1.37E-06	498	0.00E+00
237.	379	1.73E-06	499	0.00E+00

EDCR 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-34	90	2.58E-04	210	8.21E-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-05	212	1.33E-04	272	3.57E-04
198.	33	3.14E-05	93	0.00E+00	213	6.48E-04	273	6.79E-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+05	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	0.31E-05	217	6.21E-05	277	3.05E-05
228.	38	0.00E+00	98	6.20E-04	218	2.79E-05	278	4.13E-04
234.	39	0.00E+00	99	1.21E-03	219	1.34E-05	279	8.29E-05
240.	40	0.00E+00	100	1.12E-03	220	7.99E-06	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	8.49E-06	282	3.87E-04
258.	43	0.00E+00	103	0.00E+00	223	2.52E-04	283	0.00E+00
264.	44	0.00E+00	104	2.66E-04	224	1.45E-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	3.92E-04	227	0.00E+00	287	0.00E+00
288.	48	2.55E-04	108	5.43E-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	1.68E-04
126.	342	4.69E-06	462	1.84E-05
129.	343	1.48E-04	463	2.63E-04
132.	344	1.86E-03	464	1.34E-04
135.	345	8.00E+00	465	3.38E-04
138.	346	2.81E-05	466	1.05E-04
141.	347	0.00E+00	467	5.90E-05
144.	348	1.66E-04	468	2.88E-05
147.	349	9.63E-04	469	2.85E-04
150.	350	5.63E-05	470	2.91E-04
153.	351	4.66E-04	471	2.27E-04
156.	352	1.57E-03	472	4.62E-04
159.	353	0.00E+00	473	7.04E-05
162.	354	9.40E-05	474	6.97E-06
165.	355	1.32E-05	475	6.51E-06
168.	356	3.23E-06	476	5.93E-04

EDCR 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	5.05E-06	634	0.00E+00	644	0.00E+00

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
7.5	651	1.68E-06	661	0.00E+00

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
783	3.56E-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
18.	3	8.38E-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	1.68E-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	6.48E-06	195	0.00E+00	255	0.00E+00
96.	16	6.00E+00	76	6.35E-05	196	0.00E+00	256	1.71E-06
102.	17	0.00E+00	77	1.90E-05	197	1.68E-05	257	9.00E-06
108.	18	1.18E-05	78	8.31E-05	198	0.00E+00	258	9.47E-06
114.	19	0.00E+00	79	2.61E-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	7.09E-05	81	0.00E+00	201	2.30E-05	261	0.00E+00
132.	22	0.00E+00	82	7.36E-05	202	0.00E+00	262	1.36E-05
138.	23	2.00E+00	83	0.00E+00	203	1.20E-05	263	0.00E+00
144.	24	7.20E-06	84	3.54E-04	204	0.00E+00	264	5.59E-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	9.34E-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	1.82E-03	269	0.00E+00

EDCR 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	6.99E-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	8.86E-06	489	0.00E+00
210.	370	4.85E-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	1.18E-04	494	2.22E-05
225.	375	7.90E-04	495	1.41E-05
228.	376	3.33E-05	496	6.06E-06
231.	377	2.86E-05	497	1.67E-03
234.	378	1.23E-03	498	6.17E-05
237.	379	8.99E-04	499	1.86E-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
8.5	618	2.58E-04	628	0.00E+00	638	0.00E+00	648	0.00E+00
7.5	611	9.67E-05	621	2.49E-05	631	1.91E-04	641	4.91E-04
15.0	612	5.80E-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
8.5	658	8.21E-06	668	6.48E-04
7.5	651	4.83E-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	3.38E-05	664	0.00E+00

EOCP 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 2.1488 GM/S RELEASED STACK

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
781	3.47E-04
783	5.10E-05
784	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	246	0.00E+00
96.	16	0.00E+00	76	7.90E-06	196	0.00E+00	256	0.00E+00
108.	18	2.87E-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	0.33E-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	1.65E-05
216.	36	6.64E-05	96	1.11E-04	216	0.00E+00	276	0.00E+00
222.	37	0.00E+00	97	1.05E-04	217	4.14E-05	277	7.56E-06
228.	38	0.00E+00	98	2.05E-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	461	4.64E-06
132.	344	0.00E+00	464	9.57E-05
135.	345	5.84E-06	465	0.00E+00
141.	347	0.00E+00	467	7.03E-06
147.	349	0.00E+00	469	6.00E-05
159.	353	0.00E+00	473	7.70E-06
162.	354	0.00E+00	474	1.47E-04
174.	359	0.00E+00	479	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	1.26E-04	494	0.00E+00
225.	375	0.00E+00	495	1.02E-05
248.	383	0.00E+00	500	2.46E-05

EOCP 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	2.28E-05	631	0.00E+00	641	0.00E+00
15.0	612	0.00E+00	622	3.99E-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	9.00E-06	634	0.00E+00	644	0.00E+00

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
783	1.23E-04
784	8.01E-05

EDCR TEST 15 NRC STAB D 5/12/76 0610-0710 MST

GAS S AVERAGE WINDS: SPEED 2.0 M/S ;DIRECTION 28. 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.	5	7.15E-04	63	0.00E+00	193	0.00E+00	243	0.00E+00
36.	6	3.16E-03	66	0.00E+00	196	0.00E+00	246	0.00E+00
54.	9	2.54E-03	69	0.00E+00	199	0.00E+00	249	0.00E+00
72.	12	5.21E-03	72	0.00E+00	152	0.00E+00	252	0.00E+00
90.	15	3.57E-03	75	0.00E+00	155	0.00E+00	255	0.00E+00
108.	18	1.86E-03	78	0.00E+00	158	0.00E+00	258	0.00E+00
126.	21	2.20E-03	81	0.00E+00	201	0.00E+00	261	0.00E+00
122.	22	0.00E+00	82	1.44E-05	202	0.00E+00	262	0.00E+00
130.	23	0.00E+00	83	4.18E-05	203	0.00E+00	263	0.00E+00
134.	24	1.69E-03	84	3.36E-04	204	0.00E+00	264	0.00E+00
150.	25	0.00E+00	85	5.31E-04	205	5.81E-06	265	0.00E+00
156.	26	0.00E+00	86	2.01E-05	206	1.70E-05	266	0.00E+00
162.	27	1.70E-03	87	4.37E-04	207	1.08E-05	267	2.54E-06
168.	28	0.00E+00	88	2.26E-04	209	3.91E-05	268	9.14E-06
174.	29	0.00E+00	89	6.17E-04	209	0.00E+00	269	7.11E-05
180.	30	1.19E-03	90	6.34E-04	210	2.62E-05	270	6.59E-06
186.	31	0.00E+00	91	5.29E-04	211	9.96E-06	271	4.04E-06
192.	32	0.00E+00	92	3.66E-04	212	0.00E+00	272	2.16E-06
198.	33	5.67E-04	93	8.15E-05	213	6.93E-05	273	6.81E-06
204.	34	0.00E+00	94	6.83E-05	214	6.14E-05	274	2.59E-05
210.	35	0.00E+00	95	1.93E-04	215	1.38E-05	275	1.22E-05
216.	36	4.16E-04	96	7.94E-05	216	3.13E-05	276	0.00E+00
222.	37	5.60E+03	97	1.18E-04	217	2.60E-06	277	0.00E+00
228.	38	0.00E+00	98	0.49E-05	218	0.00E+00	278	0.00E+00
234.	39	1.30E-04	99	0.04E-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
270.	45	7.63E-05	105	0.00E+00	225	0.00E+00	285	0.00E+00
288.	48	9.95E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
306.	51	3.71E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	6.37E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	6.86E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	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.	352	2.27E-06	474	0.00E+00
168.	356	3.80E-06	476	0.69E-07
171.	357	2.55E-06	477	1.63E-06
174.	358	9.10E-07	478	1.86E-05
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

EDCR TEST 15 NRC STAB D 5/12/76 0610-0710 MST

GAS S AVERAGE WINDS: SPEED 2.0 M/S ;DIRECTION 28. 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	0.69E-06	485	2.89E-06
198.	366	3.03E-06	486	5.78E-06
201.	367	1.06E-05	487	6.90E-06
204.	368	7.77E-06	488	3.90E-06
207.	369	9.75E-06	489	0.00E+00
210.	370	4.22E-06	490	6.19E-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	0.15E-05	630	0.00E+00	640	0.00E+00
7.5	611	1.63E-04	621	0.00E+00	631	2.93E-05	641	1.20E-04
15.0	612	0.00E+00	622	0.00E+00	632	0.00E+00	642	8.09E-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	6.03E-05
7.5	651	0.00E+00	661	6.14E-05
15.0	652	1.50E-05	662	3.56E-05
23.0	653	1.16E-05	663	2.67E-05
30.5	654	1.28E-05	664	3.48E-05

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	0.69E-04
702	6.94E-04
703	0.93E-04
704	4.86E-04

EDCR TEST 15 NRC STAB D 5/12/76 0610-0710 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	1.08E-05	202	1.57E-05	262	1.97E-05
138.	23	0.00E+00	83	1.64E-05	203	1.19E-05	263	0.00E+00
144.	24	7.70E-05	84	0.00E+00	204	1.23E-05	264	1.13E-05
150.	25	0.00E+00	85	0.00E+00	205	3.03E-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	2.59E-04	207	1.47E-05	267	3.20E-05
168.	28	0.00E+00	88	1.53E-04	208	5.41E-05	268	0.00E+00
174.	29	0.00E+00	89	3.35E-04	209	1.35E-05	269	0.00E+00
180.	30	0.00E+00	90	3.36E-04	210	4.06E-05	270	9.50E-05
186.	31	0.00E+00	91	3.29E-04	211	5.69E-06	271	4.43E-05
192.	32	0.00E+00	92	2.33E-04	212	1.56E-05	272	0.00E+00
198.	33	1.74E-04	93	2.06E-04	213	8.34E-05	273	1.39E-05
204.	34	0.00E+00	94	5.81E-05	214	1.16E-04	274	4.36E-05
210.	35	0.00E+00	95	1.70E-04	215	5.10E-05	275	3.08E-05
216.	36	0.00E+00	96	9.55E-05	216	7.43E-05	276	1.23E-05
222.	37	0.00E+00	97	0.00E+00	217	2.13E-06	277	0.00E+00
228.	38	0.00E+00	98	0.00E+00	218	0.00E+00	278	8.72E-06
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	1.59E-05	281	6.45E-06
252.	42	6.41E-05	102	0.00E+00	222	0.00E+00	282	5.00E+00
306.	51	2.56E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00

BEARING	1600. M			
	GLN	CONC	GLN	CONC
121.	341	2.72E-06	401	0.00E+00
126.	342	1.07E-05	462	0.00E+00
129.	343	0.00E+00	463	4.04E-05
132.	344	7.40E-06	464	0.00E+00
135.	345	0.00E+00	465	1.17E-05
138.	346	1.06E-05	466	5.30E-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-03
150.	350	2.41E-05	470	0.00E+00
156.	352	1.43E-05	472	1.34E-05
159.	353	0.00E+00	473	0.79E-05
162.	354	9.03E-06	474	0.00E+00
168.	356	1.43E-05	476	0.47E-06
171.	357	1.28E-05	477	1.47E-05
174.	358	0.00E+00	478	1.16E-05
177.	359	1.32E-05	479	1.43E-05
180.	360	1.25E-05	480	4.24E-05
183.	361	0.00E+00	481	1.94E-05

EDCR TEST 15 NRC STAB D 5/12/76 0610-0710 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		1600. M	
	GLN	CONC	GLN	CONC
186.	362	5.16E-06	482	1.50E-05
189.	363	2.63E-05	483	1.11E-05
192.	364	2.60E-05	484	2.60E-05
195.	365	3.13E-05	485	1.34E-05
198.	366	0.00E+00	486	1.07E-05
201.	367	2.72E-05	487	3.17E-05
204.	368	1.45E-05	488	2.24E-06
207.	369	3.11E-05	489	0.00E+00
210.	370	2.70E-05	490	2.29E-05
216.	372	2.69E-05	492	1.48E-05
219.	373	0.00E+00	493	2.14E-06
222.	374	1.06E-05	494	1.72E-05
225.	375	4.41E-05	495	4.05E-06
228.	376	0.00E+00	496	6.70E-06
231.	377	4.27E-05	497	0.40E+00
234.	378	0.00E+00	498	1.55E-05
237.	379	9.71E-06	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	4.0	3.36E-04	620	2.46E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.92E-04	621	0.00E+00	631	6.36E-05	641	1.52E-04
15.0	612	0.00E+00	622	0.00E+00	632	1.69E-05	642	1.67E-04
23.0	613	2.77E-04	623	0.00E+00	633	4.56E-05	643	1.13E-04
30.5	614	0.00E+00	624	0.00E+00	634	9.61E-05	644	2.34E-04

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	4.96E-05	660	0.30E-05
7.5	651	1.11E-04	661	0.51E-05
15.0	652	2.15E-05	662	2.27E-05
23.0	653	2.48E-05	663	0.00E+00
30.5	654	3.30E-05	664	5.67E-05

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
702	1.21E-04

EDCP TEST 15 NRC STAB D 5/12/76 0619-0719 MST

GAS B AVERAGE WINDS: SPEED 4.9 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.	19	1.81E-04	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	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
172.	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-05	269	0.00E+00
186.	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	3.10E-04	215	0.00E+00	275	6.65E-06
216.	36	8.49E-05	96	1.03E-05	216	0.00E+00	276	0.00E+00
228.	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
288.	48	3.15E-05	108	0.00E+00	229	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	6.57E-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	1.93E-04
174.	358	1.53E-05	478	1.07E-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	1.93E-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	1.48E-05	494	0.00E+00
240.	380	0.00E+00	500	1.60E-04

EDCP TEST 15 NRC STAB D 5/12/76 0619-0719 MST

GAS B AVERAGE WINDS: SPEED 4.9 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	1.01E-04	630	0.00E+00	640	0.00E+00
7.5	611	8.95E-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	5.68E-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	2.26E-05

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
7.5	651	0.00E+00	661	3.12E-05
15.0	652	0.87E-05	662	1.30E-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

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

GAS E 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	183	0.00E+00	243	0.00E+00
36.	6	2.99E-03	64	0.00E+00	186	0.00E+00	245	0.00E+00
54.	9	7.18E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	6.67E-03	72	0.00E+0	192	0.00E+00	252	0.00E+00
79.	13	0.00E+00	73	2.46E-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	198	0.00E+00	258	0.00E+00
126.	21	0.00E+00	80	1.24E-05	201	0.00E+00	260	0.00E+00
133.	22	0.00E+00	82	3.51E-04	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	4.69E-04	203	1.83E-06	263	0.00E+00
144.	24	2.47E-03	84	6.63E-04	204	4.05E-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	1.75E-03	87	4.90E-04	207	1.63E-05	267	4.71E-06
168.	28	0.00E+00	88	6.37E-06	208	1.88E-05	268	3.75E-06
174.	29	0.00E+00	89	7.28E-04	209	4.52E-07	269	4.22E-06
180.	30	1.39E-03	90	6.78E-04	210	3.00E-05	270	7.00E-06
186.	31	0.00E+00	91	5.77E-04	211	4.53E-05	271	9.90E-07
192.	32	0.00E+00	92	5.51E-04	212	2.62E-05	272	9.23E-06
198.	33	1.09E-03	93	3.02E-04	212	2.69E-05	273	1.25E-05
204.	34	0.00E+00	94	1.60E-04	214	3.99E-05	274	2.71E-05
210.	35	0.00E+00	95	4.95E-04	215	5.89E-05	275	1.24E-05
216.	36	7.69E-04	96	2.24E-04	216	4.54E-05	276	3.78E-06
222.	37	0.00E+00	97	2.23E-04	217	2.19E-05	277	0.00E+00
228.	38	0.00E+00	98	0.00E-05	218	5.76E-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	5.49E-05	221	0.00E+00	281	0.00E+00
252.	42	1.59E-04	102	3.76E-05	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	1.39E-05	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	5.50E-05	224	0.00E+00	284	0.00E+00
270.	45	6.13E-05	105	0.00E+00	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	1.01E-05	226	0.00E+00	286	0.00E+00
282.	47	5.87E-05	107	0.00E+00	227	0.00E+00	287	0.00E+00
288.	48	1.87E-06	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	6.03E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	1.20E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	3.15E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00

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

GAS E 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	1.98E-03
702	3.81E-04
703	2.22E-04
704	1.60E-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	183	0.00E+00	243	0.00E+00
66.	11	0.00E+00	71	0.91E-06	191	0.00E+00	251	0.00E+00
72.	12	0.00E+00	72	1.27E-05	192	0.00E+00	252	0.00E+00
78.	13	0.00E+00	73	1.51E-05	193	0.00E+00	253	0.00E+00
96.	16	0.00E+00	76	5.59E-05	196	0.00E+00	256	0.00E+00
102.	17	0.00E+00	77	3.43E-06	197	0.00E+00	257	0.00E+00
108.	18	0.00E+00	78	2.07E-05	198	0.00E+00	258	0.00E+00
126.	21	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
138.	24	0.00E+00	84	6.04E-05	204	5.22E-06	264	3.16E-06
156.	25	0.00E+00	85	1.06E-04	205	7.07E-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
167.	28	0.00E+00	88	1.25E-04	208	2.20E-05	268	2.81E-05
17	29	0.00E+00	89	9.31E-05	209	1.76E-05	269	1.56E-05
	30	1.17E-04	90	1.52E-04	210	5.37E-05	270	6.48E-06
186.	31	0.00E+00	91	4.35E-04	211	2.68E-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	2.87E-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	3.93E-04	215	3.70E-05	275	2.69E-05
216.	36	8.07E+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	[illegible]
246.	41	0.00E+00	101	0.00E+00	221	0.00E+00	281	[illegible]
252.	42	0.00E+00	104	1.07E-05	224	0.00E+00	284	[illegible]
258.	43	0.00E+00	105	1.63E-05	226	0.00E+00	286	[illegible]
264.	44	0.00E+00	107	3.81E-05	227	0.00E+00	28	[illegible]
288.	48	0.00E+00	100	4.27E-06	228	0.00E+00	2	[illegible]

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

GAS E 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	1.28E-06	461	0.00E+00
126.	342	0.00E+00	462	3.83E-06
129.	343	8.45E+00	463	1.15E-05
156.	352	5.56E-07	472	0.00E+00
159.	353	6.08E-07	473	0.00E+00
165.	355	2.13E-06	475	0.00E+00
168.	356	7.35E-06	476	0.00E+00
171.	357	9.00E-06	477	6.56E-06
174.	358	5.13E-06	478	3.20E-05
177.	359	0.00E+00	479	1.19E-05
180.	360	2.01E-06	480	9.37E-06
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-05
195.	365	6.47E-06	485	7.84E-07
198.	366	8.10E-06	486	6.88E-06
201.	367	9.23E-06	487	0.00E+00
204.	368	9.72E-06	488	4.61E-06
207.	369	5.49E-06	489	0.61E-06
210.	370	5.73E-06	490	3.46E-05
213.	371	7.08E-06	491	0.00E+00
216.	372	1.36E-06	492	3.49E-05
219.	373	4.92E-07	493	0.00E+00
222.	374	1.23E-06	494	0.00E+00
240.	380	0.00E+00	500	9.30E-07

TOWER SAMPLES

HEIGHT	TOWER 1		TOWER 2		TOWER 3		TOWER 4	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
6.5	610	6.70E-04	620	3.05E-04	630	0.00E+00	640	0.00E+00
7.5	611	4.78E-04	621	2.04E-06	631	9.39E-05	641	1.57E-04
15.0	612	2.65E-04	622	2.43E-05	632	1.83E-04	642	1.34E-04
23.0	613	1.28E-04	623	5.31E-06	633	0.00E+00	643	0.00E+00
30.5	614	8.55E-05	624	0.00E+00	634	9.57E-05	644	9.54E-06

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
6.5	650	3.05E-05	628	2.63E-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	2.02E-05

EDCR 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
[illegible]	49	0.00E+00	109	4.61E-06	229	0.00E+00	289	0.00E+00
[illegible]	50	0.00E+00	110	9.39E-06	230	0.00E+00	290	0.00E+00
306.	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	2.85E-05
129.	343	4.71E-06	463	1.54E-05
135.	345	3.45E-06	465	0.00E+00
138.	346	0.00E+00	466	3.07E-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	1.75E-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
198.	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	0.32E-06
222.	374	1.60E-05	494	0.00E+00
225.	375	3.65E-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

EDCR 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	9.17E-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	1.91E-04	633	9.20E-04	643	1.10E-03
30.5	614	1.54E-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 G AVERAGE WINDS: SPEED 3.6 M/S ;DIRECTION 30. DEGREES
SOURCE STRENGTH 0.6559 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	4.57E-06	66	0.00E+00	186	0.00E+00	246	0.00E+00
72.	12	1.48E-07	72	.00E+00	192	0.00E+00	252	0.00E+00
90.	15	7.87E-06	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	18	1.71E-05	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	2.42E-05	81	3.18E-06	201	0.00E+00	261	0.00E+00
138.	23	0.00E+00	83	6.53E-06	203	6.42E-08	263	5.57E-08
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-06	266	1.26E-07
162.	27	1.62E-04	87	3.99E-05	207	6.33E-06	267	0.00E+00
168.	28	0.00E+00	88	5.68E-07	208	4.53E-05	268	0.00E+00
174.	29	0.00E+00	89	1.34E-04	209	7.82E-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	2.05E-05	271	3.00E-08
192.	32	0.00E+00	92	1.69E-04	212	1.85E-05	272	1.44E-06
198.	33	2.43E-04	93	1.44E-04	213	2.11E-05	273	2.72E-06
204.	34	0.00E+00	94	9.11E-05	214	1.85E-05	274	0.00E+00
210.	35	0.00E+00	95	1.69E-04	215	2.67E-05	275	5.32E-06

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

GAS D AVERAGE WINDS: SPEED 3.6 M/S ;DIRECTION 30. DEGREES
SOURCE STRENGTH 0.6559 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
216.	36	9.42E-05	96	5.25E-05	216	1.60E-05	276	9.12E-07
222.	37	0.00E+00	97	3.19E-05	217	5.19E-06	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	1.83E-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	455	1.19E-05
150.	350	1.24E-07	470	5.81E-08
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-08
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	1.70E-05
189.	363	0.00E+00	483	4.51E-06
192.	364	0.00E+00	484	5.64E-03
195.	365	7.92E-07	485	4.04E-06
198.	366	1.02E-06	486	2.14E-04
201.	367	7.20E-07	487	0.00E+00
204.	368	2.96E-06	488	1.62E-06
207.	369	3.22E-05	489	2.71E-05
210.	370	7.39E-07	490	4.00E-07
213.	371	3.54E-06	491	0.00E+00
219.	373	6.65E-07	493	1.31E-05
222.	374	5.20E-06	494	2.58E-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

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

GAS D AVERAGE WINDS: SPEED 3.6 M/S ;DIRECTION 30. DEGREES
SOURCE STRENGTH 0.6559 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	4.02E-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	2.87E-05	633	0.00E+00	643	9.42E-06
30.5	614	9.85E-05	624	0.00E+00	634	2.74E-05	644	9.18E-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	1.00E-05
15.0	652	1.87E-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

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

GAS G AVERAGE WINDS: SPEED 1.1 M/S ;DIRECTION 342. DEGREES
SOURCE STRENGTH 0.1660 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	1.97E-03	63	0.00E+00	183	0.00E+00	243	0.00E+00
30.	6	7.17E-04	66	0.00E+00	186	0.00E+00	245	0.00E+00
54.	9	2.33E-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
78.	12	1.77E-03	72	2.75E-05	192	0.00E+00	252	0.00E+00
90.	13	0.00E+00	73	3.43E-05	193	0.00E+00	253	0.00E+00
102.	14	0.00E+00	74	4.57E-05	194	0.00E+00	254	0.00E+00
114.	15	2.16E-03	75	0.00E+00	195	0.00E+00	255	0.00E+00
126.	16	0.00E+00	76	7.70E-05	196	5.71E-06	256	1.33E-06
138.	17	0.00E+00	77	4.16E-05	197	0.00E+00	257	1.15E-06
150.	18	1.83E-03	78	4.25E-04	198	4.20E-06	258	7.97E-06
174.	19	0.00E+00	79	5.40E-04	199	1.77E-05	259	0.95E-06
186.	20	0.00E+00	80	1.26E-03	200	2.57E-05	260	1.84E-05
126.	21	3.59E-04	81	6.35E-04	201	2.79E-05	261	8.63E-06
132.	22	0.00E+00	82	1.32E-03	202	7.25E-06	262	6.40E-06
138.	23	0.00E+00	83	5.11E-04	203	6.20E-06	263	.84E-06
144.	24	5.72E-05	84	6.91E-04	204	5.31E-06	264	4.37E-06
150.	25	0.00E+00	85	5.77E-04	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	3.40E-04	206	9.46E-06	266	1.71E-04
162.	27	6.50E-05	87	7.82E-04	207	1.47E-05	267	5.75E-05
168.	28	0.00E+00	88	1.60E-06	208	7.35E-05	268	3.32E-04
174.	29	0.00E+00	89	3.80E-05	209	3.45E-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	2.85E-05	211	1.33E-05	271	1.83E-05
192.	32	6.04E+00	92	1.15E-05	212	1.52E-05	272	7.01E-04
198.	33	4.69E-05	93	1.22E-03	213	9.34E-04	273	1.69E-05
204.	34	0.00E+00	94	0.00E+00	214	1.44E-05	274	3.92E-06
210.	35	0.00E+00	95	1.51E-06	215	1.60E-05	275	9.71E-06
216.	36	5.86E-05	96	2.07E-05	216	0.00E+00	276	2.58E-06
222.	37	0.00E+00	97	2.93E-05	217	1.46E-05	277	9.59E-05
228.	38	0.00E+00	98	2.20E-05	218	9.37E-06	278	9.29E-06
234.	39	5.33E-05	99	0.00E+00	219	1.51E-05	279	3.33E-05
240.	40	6.84E+00	100	9.67E-04	220	1.40E-05	280	1.99E-04
246.	41	6.76E+00	101	2.22E-05	221	1.45E-05	281	9.81E-06
252.	42	6.26E-05	102	1.84E-05	222	1.02E-05	282	7.12E-05
258.	43	6.62E+00	103	1.68E-05	223	8.65E+00	283	2.98E-04
264.	44	0.00E+00	104	0.93E-06	224	2.50E-07	284	7.56E-06
270.	45	6.40E-05	105	1.91E-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	7.31E-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	6.00E+00	109	1.30E-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

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

GAS G AVERAGE WINDS: SPEED 1.1 M/S ;DIRECTION 342. DEGREES
SOURCE STRENGTH 0.1660 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
312.	52	7.46E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	2.08E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
366.	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-05	461	0.00E+00
126.	342	4.91E-07	462	3.25E-07
129.	343	1.55E-05	463	8.73E-07
132.	344	1.51E-05	464	0.00E+00
135.	345	7.36E-06	465	0.00E+00
138.	346	2.81E-05	466	3.27E-07
141.	347	6.56E-06	467	2.20E-07
144.	348	9.35E-06	468	0.00E+00
147.	349	3.45E-05	469	6.00E-07
150.	350	3.72E-06	470	3.87E-06
153.	351	3.86E-06	471	3.67E-07
156.	352	2.74E-06	472	1.00E-06
159.	353	6.68E+00	473	1.25E-06
162.	354	0.00E+00	474	9.53E-07
165.	355	2.25E-06	475	8.99E-07
168.	356	0.00E+00	476	9.31E-07
171.	357	1.66E-06	477	9.33E-07
174.	358	1.51E-06	478	3.54E-07
177.	359	6.00E+00	479	0.34E-07
180.	360	1.27E-06	480	0.00E+00
183.	361	1.62E-06	481	2.07E-06
186.	362	0.00E+00	482	1.05E-06
189.	363	1.79E-05	483	0.00E+00
192.	364	4.89E-07	484	1.23E-06
195.	365	4.49E-07	485	0.19E-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	7.60E-07	490	4.21E-07
213.	371	1.85E-06	491	1.16E-06
216.	372	6.51E-07	492	2.04E-06
219.	373	8.86E-07	493	0.00E+00
222.	374	9.33E+07	494	3.05E-06
225.	375	6.65E-07	495	0.00E+00
228.	376	1.52E-06	496	3.82E-06
231.	377	1.42E-06	497	0.07E-07

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

GAS G AVERAGE WINDS: SPEED 1.1 M/S ;DIRECTION 342. DEGREES
SOURCE STRENGTH 0.1660 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
234.	378	3.62E-07	498	8.79E-06
237.	379	1.85E-06	499	1.32E-06
240.	380	1.91E-06	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	0.00E+00	620	1.23E-05	630	0.00E+00	640	0.00E+00
7.5	611	1.68E-07	621	0.00E+00	631	4.81E-05	641	1.25E-05
15.0	612	8.26E-05	622	0.00E+00	632	4.26E-05	642	2.04E-06
23.0	613	4.11E-07	623	0.00E+00	633	3.67E-05	643	1.51E-06
30.5	614	0.00E-06	624	0.00E+00	634	2.39E-07	644	6.80E-07

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	1.76E-05	660	9.34E-06
7.5	651	2.99E-05	661	2.13E-05
15.0	652	4.59E-05	662	2.02E-05
23.0	653	0.00E+00	663	6.35E-06
30.5	654	1.83E-06	664	5.37E-06

MISCELLANEOUS SAMPLES

GROUP 1

GLN	CONC
701	5.31E-06
702	3.64E-04
703	4.57E-04
704	7.29E-06

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	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
66.	11	0.00E+00	71	4.76E-05	191	0.00E+00	251	0.00E+00
90.	15	0.00E+00	75	7.11E-05	195	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	0.00E+00	196	0.00E+00	256	5.96E-04
102.	17	0.00E+00	77	0.00E+00	197	0.00E+00	257	1.37E-05
108.	18	0.00E+00	78	0.00E+00	198	2.20E 06	258	1.29E-05
114.	19	0.00E+00	79	0.00E+00	199	4.66E-06	259	3.80E-04

EDCR 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	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
120.	20	0.00E+00	80	0.00E+00	200	6.26E-04	260	3.54E-05
126.	21	0.00E+00	81	0.00E+00	201	0.00E+00	261	1.52E-05
132.	22	0.00E+00	82	0.00E+00	202	4.20E-06	262	2.57E-04
138.	23	0.00E+00	83	0.00E+00	203	4.49E-06	263	3.50E-05
144.	24	0.00E+00	84	0.00E+00	204	3.47E-05	264	4.23E-04
150.	25	0.00E+00	85	0.00E+00	205	8.41E-05	265	0.00E+00
156.	26	0.00E+00	86	0.00E+00	206	7.66E-06	266	5.36E-04
162.	27	2.16E-06	87	0.00E+00	207	0.00E+00	267	2.75E-04
168.	28	0.00E+00	88	0.00E+00	208	4.23E-05	268	1.65E-03
174.	29	0.00E+00	89	1.60E-05	209	3.50E-04	269	1.96E-05
180.	30	0.00E+00	90	1.66E-05	210	6.78E-05	270	1.15E-05
186.	31	0.00E+00	91	1.37E-04	211	6.35E-05	271	2.20E-04
192.	32	0.00E+00	92	4.87E-05	212	0.00E+00	272	2.47E-04
198.	33	0.00E+00	93	1.22E-04	213	2.33E-05	273	8.13E-04
204.	34	0.00E+00	94	5.51E-04	214	1.17E-04	274	5.91E-06
210.	35	0.00E+00	95	7.41E-05	215	1.61E-04	275	7.50E-05
216.	36	0.00E+00	96	9.33E-06	216	4.35E-04	276	0.00E+00
222.	37	0.00E+00	97	1.92E-05	217	2.06E-05	277	2.80E-04
228.	38	0.00E+00	98	4.10E-05	218	8.72E-05	278	4.17E-04
234.	39	1.10E-05	99	3.75E-04	219	7.44E-05	279	5.21E-05
240.	40	0.00E+00	100	4.62E-05	220	4.02E-05	280	5.78E-04
246.	41	0.00E+00	101	5.39E-05	221	2.31E-05	281	2.56E-05
252.	42	2.46E-05	102	1.01E-03	222	2.56E-05	282	0.00E+00
258.	43	0.00E+00	103	0.00E+00	223	1.27E-05	283	1.93E-04
264.	44	0.00E+00	104	5.16E-06	224	2.27E-04	284	2.43E-05
270.	45	6.65E-06	105	1.25E-05	225	1.59E-05	285	2.46E-06
282.	47	0.00E+00	107	2.61E-05	227	0.00E+00	287	0.00E+00
288.	48	0.00E+00	108	3.14E-06	228	0.00E+00	288	0.00E+00
324.	54	2.55E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
126.	342	6.32E-05	462	0.00E+00
129.	343	1.85E-05	463	0.00E+00
132.	344	1.13E-05	464	0.00E+00
135.	345	9.37E-06	465	0.00E+00
138.	346	6.72E-06	466	0.00E+00
141.	347	6.79E-06	467	1.26E-05
144.	348	1.00E-05	468	4.07E-06
147.	349	0.00E+00	469	2.39E-04
150.	350	0.79E+00	470	1.54E-05
153.	351	0.00E+00	471	4.65E-06
156.	352	6.59E-06	472	5.95E-03
162.	354	0.00E+00	474	6.73E-06

EDCR 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	1.87E-04	479	1.02E-05
180.	360	4.94E-06	480	2.66E-06
183.	361	6.63E-06	481	1.24E-05
186.	362	9.23E-04	482	0.00E+00
192.	364	3.81E-06	484	3.54E-05
201.	367	0.00E+00	487	2.07E-05
204.	368	6.42E-06	488	0.00E+00
207.	369	0.00E+00	489	1.33E-06
213.	371	2.11E-05	491	5.47E-06
216.	372	0.00E+00	492	1.21E-05
219.	373	0.00E+00	493	1.67E-05
222.	374	4.26E-06	494	1.86E-05
228.	376	1.45E-06	496	0.00E+00
231.	377	5.62E-06	497	2.33E-06
234.	378	0.00E+00	498	1.99E-05
237.	379	2.09E-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	0.00E-05	642	2.12E+04
23.0	613	6.66E-04	623	0.00E+00	633	1.63E-04	643	1.63E-04
30.5	614	2.56E-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	6.70E-05	660	2.33E-05
7.5	651	2.72E-05	661	2.26E-05
15.0	652	4.03E-05	662	1.90E-05
23.0	653	1.96E-05	663	8.31E-05
30.5	654	5.84E-05	664	1.69E-05

EDCR 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
286.	48	3.77E-05	108	2.52E-05	228	0.00E+00	288	0.00E+00
291.	49	0.00E+00	109	2.75E-05	229	0.00E+00	289	0.00E+00
300.	50	0.00E+00	110	1.15E-05	230	0.00E+00	290	0.00E+00
306.	51	1.65E-05	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	9.43E-09	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	462	0.00E+00
141.	347	1.61E-06	467	0.00E+00
144.	348	1.92E-06	468	6.11E-03
147.	349	1.67E-07	469	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	483	0.00E+00
207.	369	5.63E-07	489	0.00E+00
219.	373	0.00E+00	493	2.05E-07
240.	380	0.00E+00	500	6.00E-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	1.33E-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	1.03E-04	643	6.92E-05
30.5	614	0.00E+00	624	0.00E+00	634	9.68E-06	644	8.36E-06

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	2.50E-05
30.5	654	2.23E-06	664	5.07E-06

EDCR 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
701	4.19E-05
704	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-05	196	8.60E-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	0.30E-05	202	3.74E-06	262	9.32E-07
138.	23	0.00E+00	83	3.77E-03	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	2.00E-05	87	5.23E-05	207	4.35E-06	267	0.00E+00
168.	28	0.00E+00	88	4.03E-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	8.27E-05	90	0.00E+00	210	5.84E-06	270	6.76E-07
186.	31	0.00E+00	91	2.07E-05	211	3.49E-06	271	0.00E+00
192.	32	0.00E+00	92	8.19E-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	1.50E-05	96	9.59E-05	216	4.21E-07	276	0.00E+00
222.	37	0.00E+00	97	5.45E-06	217	3.47E-06	277	0.00E+00
228.	38	0.00E+00	98	4.09E-06	218	9.62E-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	6.38E-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

EDCR 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

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

GAS S 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
19.	3	3.66E-03	63	0.00E+00	183	0.00E+00	243	0.00E+00
36.	6	6.03E-03	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	7.30E-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
109.	18	3.46E-04	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	2.76E-03	81	0.00E+00	201	0.00E+00	261	0.00E+00
144.	24	4.22E-05	84	3.47E-06	204	0.00E+00	264	0.00E+00
158.	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	2.04E-04	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	0.00E+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	1.17E-03	210	1.49E-05	270	0.00E+00
186.	31	0.00E+00	91	1.11E-03	211	9.27E-05	271	2.60E-06
192.	32	0.00E+00	92	0.00E+00	212	9.08E-05	272	3.80E-05
198.	33	1.89E-03	93	1.39E-03	213	0.00E-05	273	4.18E-05
204.	34	0.00E+00	94	2.97E-04	214	1.20E-04	274	2.05E-05
210.	35	0.00E+00	95	1.00E-03	215	1.46E-04	275	3.71E-05
216.	36	1.54E-03	96	1.09E-03	216	2.17E-04	276	8.70E-05
222.	37	0.00E+00	97	4.85E-04	217	2.12E-04	277	2.09E-05
228.	38	0.00E+00	98	6.28E-04	218	1.17E-04	278	1.63E-05
234.	39	8.25E-04	99	0.00E+00	219	1.97E-05	279	0.70E-06
240.	40	0.00E+00	100	3.44E-05	220	3.16E-05	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
306.	51	2.15E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	3.23E-04	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	5.22E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	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	464	0.00E+00
138.	346	0.00E+00	466	3.31E-06
141.	347	7.00E+00	467	3.35E-06
144.	348	0.00E+00	469	1.90E-06
153.	351	0.00E+00	471	9.84E-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

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

GAS S 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	2.66E-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	1.15E-05	486	2.03E-05
201.	367	1.16E-05	487	0.00E+00
204.	368	5.55E-06	488	4.07E-06
207.	369	8.15E-06	489	4.46E-06
210.	370	1.26E-05	490	9.19E-06
213.	371	3.84E-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	4.25E-06
231.	377	5.08E-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	1.15E-03	620	1.39E-03	630	0.00E+00	640	0.00E+00
7.5	611	6.00E-04	621	9.77E-04	631	3.54E-06	641	1.59E-05
15.0	612	0.00E+00	622	4.40E-04	632	2.93E-06	642	1.32E-04
23.0	613	5.16E-05	623	2.18E-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	0.02E-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	1.09E-06
30.5	654	2.56E-06	664	0.00E+00

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

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

MISCELLANEOUS SAMPLES

GROUP 1

GLN	CONC
781	9.30E-04
782	1.85E-03
783	2.57E-03
784	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
108.	18	5.50E-05	78	0.00E+00	178	0.00E+00	258	0.00E+00
132.	22	0.00E+00	82	1.10E-05	182	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	0.00E+00	183	0.00E+00	263	3.00E-06
144.	24	4.77E-05	84	0.00E+00	184	1.12E-05	264	0.00E+00
150.	25	0.00E+00	85	1.12E-05	205	0.00E+00	265	7.67E-06
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	7.83E-06	270	0.00E+00
186.	31	0.00E+00	91	7.01E-05	211	9.05E+00	271	0.00E+00
192.	32	0.00E+00	92	0.00E+00	212	4.69E-05	272	0.00E+00
198.	33	0.00E+00	93	1.20E-04	213	4.01E-05	273	0.00E+00
204.	34	0.00E+00	94	1.05E-04	214	0.00E+00	274	0.00E+00
210.	35	0.00E+00	95	1.26E-04	215	5.32E-05	275	9.00E+00
216.	36	0.00E+00	96	2.00E-05	216	1.01E-04	276	4.21E-05
222.	37	0.00E+00	97	4.90E-05	217	6.49E-05	277	0.00E+00
228.	38	0.00E+00	98	1.61E-05	218	0.00E+00	278	0.00E+00
234.	39	0.00E+00	99	9.99E-05	219	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	7.70E-05	220	3.70E-05	300	0.00E+00
306.	51	3.61E-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	467	0.00E+00
174.	359	6.49E-06	479	1.16E-05
177.	359	6.05E+00	479	6.50E-06
201.	367	4.60E-05	487	1.28E-05
210.	370	0.00E+00	490	1.61E-05
219.	373	6.06E-05	493	0.00E+00

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

GAS F AVERAGE WINDS: SPEED 6.9 M/S ;DIRECTION 32. DEGREES
SOURCE STRENGTH 1.2831 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	618	2.58E-05	628	1.26E-04	638	0.00E+00	648	0.00E+00
7.5	611	0.61E-05	621	1.30E-04	631	0.00E+00	641	0.00E+00
15.0	612	1.24E-04	622	2.27E-04	632	4.74E-04	642	5.47E-05
23.0	613	1.93E-04	623	3.40E-04	633	0.00E+00	643	9.22E-05
30.5	614	0.26E-05	624	2.30E-05	634	4.98E-04	644	3.71E-05

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	7.05E-06	660	4.01E-05
15.0	652	1.11E-05	662	1.56E-04
23.0	653	1.74E-04	663	8.71E-05
30.5	654	0.00E+00	664	1.10E-03

MISCELLANEOUS SAMPLES

GROUP 1

GLN	CONC
781	1.10E-04
784	1.31E-04

GAS G AVERAGE WINDS: SPEED 6.5 M/S ;DIRECTION 32. DEGREES
SOURCE STRENGTH 0.6246 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	0.00E+00	86	0.00E+00	206	0.00E+00	266	3.35E-07
162.	27	2.37E-05	87	1.15E-06	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	4.71E-06	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	2.41E-05	209	0.00E+00	269	0.00E+00
180.	30	1.11E-04	90	1.02E-04	210	0.00E+00	270	0.00E+00
186.	31	0.00E+00	91	1.15E-04	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	0.00E+00	212	2.73E-05	272	1.72E-05
198.	33	3.54E-04	93	2.03E-04	213	4.41E-05	273	1.05E-05
204.	34	0.00E+00	94	1.02E-04	214	3.26E-05	274	8.90E-06
210.	35	0.00E+00	95	3.13E-04	215	4.72E-05	275	1.44E-05
216.	36	2.48E-04	96	2.03E-04	216	9.15E-05	276	3.57E-05
222.	37	0.00E+00	97	1.43E-04	217	3.20E-05	277	1.44E-05
228.	38	0.00E+00	98	3.78E-05	218	3.58E-05	278	4.04E-07
234.	39	1.68E-05	99	0.00E+00	219	0.00E+00	279	2.90E-07
270.	45	2.44E-07	105	0.00E+00	225	0.00E+00	285	0.00E+00

EOCR TEST 1B 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	6.40E-07
129.	343	4.17E-07	463	0.00E+00
132.	344	5.87E-07	464	0.00E+00
135.	345	0.00E+00	465	2.18E-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	4.78E-07	472	2.58E-07
162.	354	3.94E-07	474	0.00E+00
180.	360	2.52E-00	480	0.00E+00
183.	361	1.47E-07	481	1.83E-07
192.	364	3.46E-07	484	2.30E-07
198.	366	7.02E-06	486	5.76E-07
204.	368	2.60E-07	489	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	9.86E-06
225.	375	1.16E-07	495	0.00E+00
231.	377	2.40E-07	497	2.22E-06
234.	378	1.90E-07	498	5.82E-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	4.05E-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	1.38E-04	623	4.81E-04	633	8.74E-05	643	6.52E-05
30.5	614	9.00E+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	7.83E-05

EOCR TEST 1B 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

EDCR 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
10.	3	8.92E-04	63	0.00E+00	193	0.00E+00	243	0.00E+00
36.	6	1.84E-03	66	0.00E+00	196	0.00E+00	246	0.00E+00
54.	9	2.91E-03	69	0.00E+00	199	0.00E+00	249	0.00E+00
72.	12	2.55E-03	72	0.00E+00	202	0.00E+00	252	0.00E+00
84.	14	0.00E+00	74	3.25E-07	204	0.00E+00	254	0.00E+00
90.	15	7.78E-04	75	0.00E+00	205	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	9.20E-07	206	0.00E+00	256	0.00E+00
102.	17	0.00E+00	77	1.34E-07	207	0.00E+00	257	0.00E+00
108.	18	1.15E-03	78	1.38E-05	208	0.00E+00	258	0.00E+00
114.	19	0.00E+00	79	1.19E-04	209	0.00E+00	259	0.00E+00
120.	20	0.00E+00	80	3.67E-04	210	0.00E+00	260	0.00E+00
126.	21	9.31E-04	81	6.84E-04	211	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	5.50E-04	212	3.51E-07	262	0.00E+00
138.	23	0.00E+00	83	4.66E-04	213	1.17E-05	263	0.00E+00
144.	24	7.30E-04	84	5.44E-04	214	1.76E-05	264	0.00E+00
150.	25	0.00E+00	85	5.75E-04	215	1.37E-05	265	2.00E-06
156.	26	0.00E+00	86	4.60E-04	216	0.00E+00	266	0.00E+00
162.	27	6.37E-04	87	5.51E-04	217	7.55E-05	267	0.00E+00
168.	28	0.00E+00	88	5.12E-04	218	1.28E-04	268	2.44E-05
174.	29	0.00E+00	89	3.69E-04	219	0.00E+00	269	0.00E+00
180.	30	4.96E-04	90	2.85E-04	220	1.45E-06	270	9.71E-05
186.	31	0.00E+00	91	0.00E+00	221	9.74E-05	271	4.59E-05
192.	32	0.00E+00	92	2.05E-04	222	1.20E-05	272	6.11E-05
198.	33	2.26E-04	93	1.71E-04	223	9.54E-05	273	1.81E-05
204.	34	0.00E+00	94	1.74E-04	224	5.72E-05	274	2.70E-05
210.	35	0.00E+00	95	1.19E-04	225	3.41E-05	275	6.20E-06
216.	36	1.02E-04	96	1.56E-04	226	0.00E+00	276	1.19E-06
222.	37	0.00E+00	97	6.71E-05	227	1.33E-06	277	0.00E+00
228.	38	0.00E+00	98	2.63E-05	228	0.00E+00	278	0.00E+00
234.	39	4.66E-05	99	0.00E+00	229	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	2.45E-05	230	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	1.22E-05	231	0.00E+00	281	0.00E+00
252.	42	1.47E-04	102	5.11E-06	232	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	5.46E-06	233	0.00E+00	283	0.00E+00
270.	45	1.95E-04	105	7.44E-07	235	0.00E+00	285	0.00E+00
288.	48	1.58E-04	108	0.00E+00	238	0.00E+00	288	0.00E+00
300.	50	0.00E+00	110	3.42E-07	240	0.00E+00	290	0.00E+00
306.	51	3.81E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	3.47E-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	5.80E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00

EDCR 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	7.85E-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 30. 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
78.	13	0.00E+00	73	1.28E-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-06	262	7.54E-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	4.73E-05
156.	26	0.00E+00	86	9.97E-06	206	3.39E-05	266	3.94E-06
162.	27	0.00E+00	87	0.00E+00	207	0.00E+00	267	9.12E-07
168.	28	0.00E+00	88	5.21E-05	208	0.00E+00	268	2.41E-05
174.	29	0.00E+00	89	7.31E-05	209	0.00E+00	269	0.00E+00
180.	30	0.00E+00	90	8.73E-05	210	1.71E-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	3.59E-05	212	1.73E-05	272	1.75E-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	3.10E-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	6.67E-06	278	0.00E+00
234.	39	0.00E+00	99	4.92E-05	219	0.00E+00	279	1.49E-05
240.	40	0.00E+00	100	0.00E+00	220	1.16E-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	2.39E-06	222	0.00E+00	282	0.00E+00
276.	46	0.00E+00	106	7.23E-05	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
294.	49	0.00E+00	109	9.18E-06	229	0.00E+00	289	0.00E+00

EDCR 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	462	0.00E+00
147.	349	1.04E-07	469	0.00E+00
150.	350	0.12E-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	7.63E-06	474	2.13E-05
165.	355	4.70E-06	475	1.47E-06
168.	356	6.20E-06	476	0.00E+00
171.	357	6.33E-06	477	3.46E-06
174.	358	5.40E-06	478	2.37E-07
177.	359	0.70E-07	479	1.06E-06
180.	360	0.00E+00	480	1.26E-06
183.	361	1.90E-05	481	3.80E-06
186.	362	5.66E-06	482	9.16E-06
189.	363	1.58E-05	483	1.49E-05
192.	364	6.50E-06	484	1.84E-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-09
213.	371	1.03E-06	491	0.00E+00
219.	373	1.39E-07	493	0.00E+00
228.	376	0.00E+00	496	2.69E-06
237.	379	0.00E+00	499	1.90E-06

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	1.71E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.84E-04	621	5.11E-05	631	1.92E-04	641	7.65E-05
15.0	612	2.01E-05	622	6.09E-06	632	5.47E-05	642	3.38E-05
23.0	613	1.53E-06	623	3.94E-05	633	0.00E+00	643	1.00E-05
30.5	614	0.00E+00	624	1.25E-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	9.73E-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

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

GAS F AVERAGE WINDS: SPEED 4.5 M/S ;DIRECTION 30. DEGREES
SOURCE STRENGTH 1.2582 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
123.	341	0.00E+00	461	5.71E-06
129.	343	0.00E+00	463	3.23E-07
132.	344	2.41E-06	464	0.00E+00
135.	345	1.49E-06	465	0.00E+00
144.	348	7.53E-07	468	0.00E+00
171.	357	9.20E-06	477	0.00E+00
174.	358	3.48E-06	478	5.00E-05
177.	359	0.00E+00	479	3.56E-06
183.	361	2.65E-06	481	0.00E+00
186.	362	3.48E-05	482	0.00E+00
189.	363	1.34E-05	483	1.39E-05
192.	364	3.73E-06	484	4.68E-06
195.	365	1.81E-05	485	3.94E-06
198.	366	0.00E+00	486	1.16E-06
201.	367	9.81E-06	487	0.00E+00
204.	368	1.15E-05	488	3.59E-06
207.	369	9.00E+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	1.18E-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	8.73E-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	0.78E-05
15.0	612	1.67E-04	622	4.03E-05	632	7.81E-	642	1.41E-04
23.0	613	4.38E-05	623	7.29E-04	633	9.34E-05	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

EDCP 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 1.2592 GM/S RELEASED STACK

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
784	4.40E-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	GLN	CONC
10.	3	1.03E-07	63	0.00E+00	133	0.00E+00	243	0.00E+00
90.	15	5.47E-05	75	0.00E+00	135	0.00E+00	255	0.00E+00
100.	18	3.33E-05	78	0.00E+00	198	0.00E+00	258	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	3.58E-07	202	0.00E+00	262	1.17E-05
138.	23	0.00E+00	83	5.26E-05	203	0.00E+00	263	0.07E-06
144.	24	1.77E-04	84	1.94E-05	204	0.00E+00	264	5.43E-05
150.	25	0.00E+00	85	3.20E-05	205	0.00E+00	265	5.60E-06
156.	26	0.00E+00	86	4.25E-05	206	0.00E+00	266	4.82E-07
162.	27	2.35E-04	87	1.81E-04	207	7.51E-06	267	2.81E-06
168.	28	0.00E+00	88	1.74E-04	208	1.81E-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	1.08E-07	270	9.79E-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	0.05E-05	213	3.02E-05	273	7.73E-06
204.	34	0.00E+00	94	3.86E-05	214	1.35E-05	274	0.70E-06
210.	35	0.00E+00	95	1.3E-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	9.65E-06	217	0.00E+00	277	0.00E+00
228.	38	0.00E+00	98	0.00E+00	218	1.45E-07	278	9.00E+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	1.82E-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-06
141.	347	0.40E-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

EDCP 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	9.00E-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	2.03E-07
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-05
180.	360	0.00E+00	480	1.02E-06
183.	361	3.33E-05	481	0.00E+00
186.	362	0.24E-05	482	0.00E+00
189.	363	5.95E-05	483	3.70E-05
192.	364	0.00E+00	484	5.07E-06
195.	365	4.67E-06	485	3.00E-06
198.	366	0.00E+00	486	1.35E-05
201.	367	0.00E+00	487	1.04E-05
204.	368	0.00E+00	488	7.92E-07
207.	369	0.00E+00	489	1.25E-06
210.	370	0.00E+00	490	7.30E-03
213.	371	0.00E+00	491	2.10E-07
219.	373	0.00E+00	493	1.63E-06
222.	374	0.00E+00	494	2.53E-03
225.	375	0.00E+00	495	3.00E-07
234.	378	0.00E+00	498	2.53E-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	GLN	CONC
0.5	610	1.62E-04	620	9.05E-05	630	0.00E+00	640	0.00E+00
7.5	611	2.66E-04	621	2.20E-05	631	0.90E-05	641	7.57E-05
15.0	612	2.03E-04	622	4.56E-05	632	9.22E-05	642	1.00E-04
23.0	613	1.93E-05	623	5.73E-04	633	1.61E-06	643	9.04E-05
30.5	614	2.15E-06	624	3.73E-04	634	6.27E-06	644	2.04E-05

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	1.63E-07	660	3.02E-05
7.5	651	0.00E+00	661	7.09E-05
15.0	652	3.10E-05	662	2.65E-05
23.0	653	1.65E-05	663	2.05E-05
30.5	654	2.30E-05	664	7.45E-05

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	1.38E-02	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	2.95E-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	1.90E-03	75	1.18E-06	195	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	4.50E-05	196	0.00E+00	256	0.00E+00
102.	17	0.00E+00	77	4.14E-06	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	6.68E-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.	28	0.00E+00	88	1.84E-04	208	2.16E-05	268	0.00E+00
174.	29	0.00E+00	89	3.10E-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	1.25E-05	271	0.00E+00
192.	32	0.00E+00	92	5.05E-04	212	1.00E-05	272	9.89E-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	6.87E-06	274	0.00E+00
210.	35	0.00E+00	95	4.42E-04	215	0.00E+00	275	4.75E-06
216.	36	4.38E-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-06
234.	39	4.27E-04	99	0.00E+00	219	3.82E-06	279	8.02E-06
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	2.18E-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	2.05E-07
159.	353	1.11E-07	473	0.00E+00
162.	354	2.28E-07	474	0.00E+00
171.	357	0.00E+00	477	6.16E-07
174.	358	0.00E+00	478	1.28E-07
177.	359	0.00E+00	479	5.10E-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	5.86E-07
204.	368	0.00E+00	488	4.40E-06
207.	369	0.00E+00	489	3.20E-07
210.	370	0.00E+00	490	1.12E-06
213.	371	3.20E-06	491	4.69E-06
216.	372	1.02E-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	3.90E-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	2.36E-05	660	0.00E+00
7.5	651	0.00E+00	661	3.59E-05
15.0	652	1.25E-05	662	2.00E-05
23.0	653	2.64E-06	663	1.81E-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	7.98E-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	1.83E-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	1.29E-04	204	1.29E-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
168.	28	0.00E+00	88	4.16E-05	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	0.00E+00	209	1.12E-05	269	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	1.39E-05	217	5.69E-05	277	3.00E-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	5.30E-06	225	0.00E+00	285	0.00E+00
288.	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	4.08E-05	120	0.00E+00	240	0.00E+00	300	0.00E+00

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
138.	346	0.00E+00	466	2.15E-06
141.	347	1.18E-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	9.29E-05
156.	352	8.12E-06	472	0.00E+00
162.	354	4.81E-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	7.16E-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	1.89E-06
201.	367	0.00E+00	487	2.16E-06
207.	369	6.90E-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	1.60E-05	493	1.90E-05
222.	374	0.00E+00	494	3.81E-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	5.82E-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	2.99E-05
23.0	613	2.86E-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	2.96E-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

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC

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

GAS 0 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
78.	13	0.00E+00	73	1.27E-06	193	0.00E+00	253	0.00E+00
96.	15	8.86E-06	75	3.92E-06	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-06	78	2.87E-06	198	0.00E+00	258	0.00E+00
120.	20	0.00E+00	80	4.29E-06	200	0.00E+00	260	0.00E+00
126.	21	1.66E-05	81	1.11E-05	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	1.83E-05	202	3.66E-07	262	0.00E+00
138.	23	0.00E+00	83	2.34E-05	203	1.12E-07	263	0.00E+00
144.	24	2.64E-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	0.05E-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	6.48E-05	90	9.20E-07	210	7.34E-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
198.	33	0.00E+00	93	2.03E-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.	36	1.01E-04	96	1.34E-04	216	2.96E-05	276	1.09E-05
222.	37	0.00E+00	97	9.86E-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	6.35E-06	99	0.00E+00	219	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	7.60E-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-05
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	6.98E-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	1.81E-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

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

GAS 0 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

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

GAS 0 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-05
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-09	485	1.33E-06
201.	367	0.00E+00	487	5.91E-07
204.	368	0.00E+00	488	6.20E-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	1.81E-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	5.78E-06
231.	377	2.80E-06	497	6.36E-06
234.	378	6.00E+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	2.83E-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	7.18E-03	622	1.75E-04	632	1.76E-05	642	1.68E-05
23.0	613	3.96E-05	623	9.48E-03	633	1.03E-05	643	1.21E-05
30.5	614	4.04E-06	624	8.20E-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	8.68E-06	663	1.18E-05
30.5	654	2.41E-06	664	1.13E-05

EDCP 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	193	0.00E+00	245	0.00E+00
36.	6	2.15E-03	66	0.00E+00	196	0.00E+00	246	0.00E+00
54.	9	5.44E-03	69	0.00E+00	197	0.00E+00	249	0.00E+00
72.	12	2.91E-03	72	0.00E+00	198	0.00E+00	252	0.00E+00
90.	15	1.61E-03	75	0.00E+00	199	0.00E+00	255	0.00E+00
107.	17	2.00E+00	77	0.00E+00	197	0.00E+00	257	1.06E-05
108.	18	1.75E-03	78	0.00E+00	198	0.00E+00	258	9.33E-06
110.	19	0.00E+00	79	0.00E+00	199	0.00E+00	259	1.81E-06
126.	28	0.00E+00	88	0.00E+00	208	0.00E+00	268	4.32E-06
126.	21	1.14E-03	81	0.00E+00	201	0.00E+00	261	7.34E-06
132.	22	6.02E+00	82	1.59E-03	202	0.00E+00	262	0.00E+00
150.	25	0.00E+00	03	0.00E+00	203	0.00E+00	263	4.93E-07
144.	24	8.75E-04	84	1.09E-03	204	0.00E+00	264	1.81E-06
156.	25	0.00E+00	05	1.17E-03	205	2.11E-05	265	1.33E-06
156.	26	0.00E+00	86	5.33E-04	206	2.77E-04	266	1.68E-05
162.	27	0.00E+00	87	0.44E-04	207	1.97E-04	267	6.31E-05
168.	28	0.00E+00	89	6.23E-04	208	2.31E-04	268	3.16E-05
172.	29	0.00E+00	89	5.16E-04	209	4.35E-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	9.	1.60E+04	212	3.16E+05	272	6.71E-06
198.	33	1.11E-04	93	1.46E-04	213	1.14E-05	273	1.81E-05
204.	34	0.00E+00	94	5.32E-05	214	0.00E+00	274	3.42E-06
210.	35	0.00E+00	95	4.67E-05	215	4.04E-06	275	9.36E-06
216.	36	1.24E-04	96	7.93E-05	216	4.82E-06	276	1.87E-05
222.	37	0.00E+00	97	6.00E-05	217	3.83E-06	277	6.57E-06
228.	38	0.00E+00	98	3.61E-05	218	5.67E-06	278	1.86E-05
234.	39	1.43E-05	99	2.78E-05	219	0.00E+00	279	9.05E-07
240.	40	0.00E+00	100	9.82E-05	220	0.00E+00	280	5.10E-07
246.	41	0.00E+00	101	6.91E+06	221	0.00E+00	291	2.20E-06
252.	42	6.01E-05	102	0.69E-07	222	5.63E-07	282	3.50E-05
258.	43	0.00E+00	103	0.00E+00	223	9.77E+03	283	9.32E-06
264.	44	0.00E+00	104	0.00E+00	224	0.00E+00	284	1.75E-05
270.	45	5.40E-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	2.95E-07	287	0.00E+00
288.	48	4.05E-05	108	0.00E+00	228	0.00E+00	288	0.00E+00
294.	51	1.07E-04	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	7.74E-05	114	0.00E+00	234	0.00E+00	294	0.00E+00
342.	57	1.10E-04	117	0.00E+00	237	0.00E+00	297	0.00E+00
360.	60	1.08E-04	120	0.00E+00	240	0.00E+00	300	0.00E+00

EDCP 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	1.45E-04	630	0.00E+00	640	0.00E+00
7.5	611	3.75E-05	621	1.75E-04	631	2.07E-04	641	8.59E-05
15.0	612	3.23E-05	622	9.18E-05	632	5.05E-05	642	9.02E-05
23.0	613	5.96E-07	623	0.00E+00	633	9.01E-06	643	1.87E-05
30.5	614	0.00E+00	624	4.25E-05	634	1.68E-05	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	4.09E-06
15.0	652	9.34E-05	662	1.13E-06
23.0	653	4.68E-05	663	1.70E-07
30.5	654	0.00E+00	664	3.00E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	1.49E-04
702	6.00E-05
703	7.51E-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
18.	16	0.00E+00	76	0.00E+00	196	0.00E+00	256	3.47E-06
103.	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	9.57E-05
132.	22	0.00E+00	82	0.00E+00	202	1.30E-04	262	3.64E-06
140.	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	2.06E-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	4.81E-06
174.	29	0.00E+00	89	1.18E-04	209	3.03E-05	269	7.81E-05
180.	30	7.34E-05	90	0.00E+00	210	0.00E+00	270	2.33E-05
186.	31	0.00E+00	91	9.78E-05	211	0.00E+00	271	0.00E+00

EDCP 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 0.15 G GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
123.	341	4.89E-06	461	3.18E-07
126.	342	1.11E-05	462	0.00E+00
129.	343	9.73E-06	463	0.00E+00
132.	344	4.60E-C	464	0.00E+00
135.	345	2.58E-06	465	0.00E+00
142.	349	5.44E-06	469	0.00E+00
150.	350	1.60E-05	470	0.00E+00
153.	351	6.94E-07	471	0.00E+00
156.	352	5.86E-06	472	0.00E+00
159.	353	1.24E-05	473	7.22E-07
162.	354	8.64E-06	474	2.40E-05
165.	355	3.53E-05	475	2.16E-05
168.	356	1.96E-05	476	2.05E-05
171.	357	1.65E-05	477	3.68E-05
174.	358	6.96E-05	478	1.87E-05
177.	359	6.40E-05	479	1.75E-05
180.	360	1.82E-05	480	2.31E-05
183.	361	2.38E-05	481	6.01E-06
186.	362	7.30E-06	482	6.30E-06
189.	363	6.47E-06	483	5.74E-06
192.	364	5.13E-06	484	4.69E-06
195.	365	3.53E-06	485	5.62E-06
198.	366	1.14E-05	486	6.06E-06
201.	367	6.32E-07	487	2.52E-05
204.	368	2.91E-06	488	3.66E-06
207.	369	3.68E-06	489	2.13E-05
210.	370	3.64E-06	490	9.71E-06
213.	371	3.43E-06	491	1.50E-05
216.	372	5.33E-06	492	2.90E-06
219.	373	6.90E-06	493	9.15E-07
222.	374	3.18E-06	494	1.16E-06
225.	375	1.62E-06	495	0.00E+00
228.	376	8.00E+00	496	4.03E-06
231.	377	0.00E+00	497	2.72E-05
234.	378	1.19E-07	498	1.06E-07
237.	379	3.38E-07	499	1.17E-07
240.	380	1.59E-06	500	3.54E-06

EDCP 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	0.24E-05	212	1.59E-04	272	1.40E-05
198.	33	3.29E-05	92	3.91E-05	213	1.02E-05	273	1.77E-05
210.	35	0.00E+00	95	0.00E+00	215	0.00E+00	275	9.02E-06
216.	36	2.40E-05	96	0.00E+00	216	7.31E-06	276	2.05F-05
222.	37	0.00E+00	97	0.00E+00	217	0.00E-05	277	7.15E-06
228.	38	0.00E+00	98	1.16E-05	218	7.43E-06	278	8.51E-05
234.	39	2.03E-04	99	0.00E+00	219	5.27E-05	279	2.09E-06
240.	40	0.00E+00	100	0.00E+00	220	3.07E-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	3.37E-06	222	1.20E-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	2.03E-05
270.	45	0.00E+00	105	7.07E-06	225	3.97E-05	285	1.19E-04
276.	46	0.00E+00	106	0.00E+00	226	0.31E-06	286	0.00E+00
282.	47	0.00E+00	107	3.96E-06	227	0.31E-06	287	0.00E+00
288.	48	0.00E+00	108	0.00E+00	228	9.42E-05	288	0.00E+00
294.	49	0.00E+00	109	4.56E+06	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	6.13E-05
129.	343	3.26E-05	463	7.47E-06
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	5.76E-06	471	3.53E-05
156.	352	6.15E-06	472	0.00E+00
162.	354	0.00E+00	474	3.14E-05
165.	355	1.42E-05	475	2.33E-05
168.	356	6.12E-06	476	1.59E-05
171.	357	1.76E-05	477	1.60E-05
174.	358	5.81E-06	478	9.39E-05
177.	359	2.81E-05	479	1.44E-05
180.	360	0.00E+00	480	1.06E-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	2.81E-05	484	2.50E-06
195.	365	1.09E-05	485	3.20E-07
198.	366	5.84E-07	486	6.50E-05
201.	367	9.42E-06	487	4.25E-05
204.	368	9.99E-07	488	6.34E-06

EDCR 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		1680. M	
	GLN	CONC	GLN	CONC
207.	369	1.23E-05	489	5.16E-05
210.	370	0.00E+00	490	4.91E-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	3.54E-05	494	0.00E+00
225.	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-05
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	4.38E-05	621	0.06E-05	631	7.96E-05	641	1.32E-04
15.0	612	1.35E-04	622	1.79E-04	632	4.52E-05	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	1.96E-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	2.81E-04
23.0	653	1.98E-05	663	5.30E-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

EDCR 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 0.6888 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	1.32E-04	631	1.14E-04	641	1.87E-04
15.0	612	2.07E-04	622	1.91E-04	632	0.32E-05	642	1.49E-04
23.0	613	6.15E-06	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-06	644	4.55E-05

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	2.62E-05	660	1.37E-05
7.5	651	4.59E-05	661	1.95E-04
15.0	652	2.53E-05	662	0.00E+00
23.0	653	1.54E-05	663	5.06E-05
30.5	654	7.42E-05	664	1.45E-05

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
703	5.99E-04
704	3.93E-04

EDCR 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 0.6888 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	1.00E+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	1.34E-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	2.02E-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	1.29E-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-06	275	0.00E+00
216.	36	5.52E-05	96	4.70E-06	216	0.00E+00	276	0.00E+00
222.	38	0.00E+00	98	1.07E-05	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	6.02E-06	280	0.00E+00
342.	57	1.44E-06	117	0.00E+00	237	0.00E+00	297	0.00E+00

BEARING	1200. M		1680. M	
	GLN	CONC	GLN	CONC
126.	342	3.93E-06	462	0.00E+00
129.	343	4.15E-06	463	0.00E+00
147.	349	4.53E-07	469	0.00E+00
165.	355	2.02E-06	475	0.00E+00
168.	356	4.16E-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	0.65E-06	479	6.00E-06
180.	360	2.98E-06	480	7.00E+00
183.	361	8.41E-06	481	5.22E-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 S AVERAGE WINDS: SPEED 2.4 M/S ;DIRECTION 34. DEGREES
SOURCE STRENGTH 0.1479 GM/S RELEASED GROUND

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M GLN	50. M CONC	100. M GLN	100. M CONC	400. M GLN	400. M CONC	800. M GLN	800. M CONC
18.	3	1.86E-05	63	0.00E+00	183	0.00E+00	243	[illegible]
36.	6	2.74E-05	66	0.00E+00	186	0.00E+00	246	0.00E+00
54.	9	2.29E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	12	7.18E-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	[illegible].26E-03	78	0.00E+00	198	0.00E+00	258	0.00E+00
126.	21	9.37E-04	81	8.73E-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	8.04E-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	5.13E-07	266	0.00E+00
162.	27	8.21E-04	87	3.72E-04	207	4.87E-07	267	0.00E+00
168.	28	0.00E+00	88	0.00E+00	208	7.29E-07	268	3.10E-07
174.	29	0.00E+00	89	4.56E-04	209	2.65E-06	269	4.94E-07
180.	30	9.33E-04	90	4.46E-04	210	4.37E-06	270	9.00E-07
186.	31	0.00E+00	91	3.91E-04	211	0.00E+00	271	[illegible]
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-06
204.	34	0.00E+00	94	1.29E-05	214	3.60E-05	274	6.37E-06
210.	35	0.00E+00	95	0.00E+00	215	0.00E+00	275	6.97E-06
216.	36	5.64E-04	96	2.42E-04	216	2.18E-05	276	[illegible]
222.	37	0.00E+00	97	2.29E-04	217	2.81E-05	277	5.90E-06
228.	38	0.00E+00	98	1.26E-04	218	2.04E-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	9.60E-05	221	3.59E-05	281	0.00E+00
252.	42	2.67E-04	102	1.75E-05	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	1.98E-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
288.	48	1.86E-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	9.39E-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	1200. M GLN	1200. M CONC	1600. M GLN	1600. M CONC
174.	358	2.71E-05	478	0.00E+00
180.	360	3.36E-06	480	0.00E+00
189.	363	5.46E-07	483	1.99E-07
192.	364	9.82E-07	484	0.00E+00
195.	365	1.56E-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 4.7 M/S ;DIRECTION 19. DEGREES
SOURCE STRENGTH 1.2208 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	50. M GLN	50. M CONC	200. M GLN	200. M CONC	400. M GLN	400. M CONC	800. M 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
66.	11	0.00E+00	71	2.06E-05	191	0.00E+00	251	0.00E+00
126.	21	0.00E+00	81	1.43E-05	201	0.00E+00	261	0.00E+00
132.	22	0.00E+00	82	[illegible]	202	0.00E+00	262	5.21E-05
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	1.60E-06
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	8.77E-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	3.85E-05	274	1.18E-05
210.	35	0.00E+00	95	3.03E-05	215	0.00E+00	275	0.00E+00
216.	36	3.13E-05	96	9.36E-05	216	2.80E-05	276	3.54E-06
222.	37	0.00E+00	97	4.54E-05	217	5.67E-05	277	3.25E-06
228.	38	0.00E+00	98	0.00E+00	218	3.74E-05	278	5.58E-06
234.	39	0.00E+00	99	0.00E+00	219	7.18E-06	279	0.00E+00
240.	40	0.00E+00	100	1.05E-0[illegible]	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	0.00E+00	221	5.00E-05	281	1.89E-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	5.87E-05
264.	44	0.00E+00	104	0.00E+00	224	9.17E-06	284	6.60E-05
270.	45	0.00E+00	105	0.00E+00	225	7.63E-06	285	4.09E-05
282.	47	0.00E+00	107	1.63E-05	227	7.07E-06	287	0.00E+00
288.	48	0.00E+00	108	3.49E-07	228	1.23E-05	288	0.00E+00
294.	49	0.00E+00	109	0.00E+00	229	6.72E-05	289	0.00E+00
306.	51	5.05E-05	111	0.00E+00	231	2.05E-06	291	0.00E+00
342.	57	2.85E-05	117	0.00E+00	237	0.00E+00	297	0.00E+00

BEARING	1200. M GLN	1200. M CONC	1600. M GLN	1600. M CONC
123.	341	3.41E-06	461	0.00E+00
126.	342	3.87E-06	462	1.48E-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 S 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 GLN	1200. M CONC	1600. M GLN	1600. M CONC
201.	367	4.81E-06	487	1.66E-06
204.	368	4.71E-06	488	2.09E-06
207.	369	1.60E-06	489	1.04E-06
210.	370	2.89E-06	490	1.03E-06
213.	371	3.90E-06	491	0.00E+00
216.	372	4.78E-06	492	0.00E+00
219.	373	7.18E-06	493	6.78E-06
222.	374	4.90E-06	494	3.71E-06
225.	375	2.72E-06	495	0.00E+00
228.	376	1.18E-06	496	5.56E-07

TOWER SAMPLES

HEIGHT	TOWER 1 GLN	TOWER 1 CONC	TOWER 2 GLN	TOWER 2 CONC	TOWER 3 GLN	TOWER 3 CONC	TOWER 4 GLN	TOWER 4 CONC
0.5	610	4.06E-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	1.54E-06
15.0	612	0.00E+00	622	2.20E-04	632	9.02E-05	642	1.39E-05
23.0	613	5.17E-04	623	1.18E-06	633	1.78E-04	643	1.02E-04
30.5	614	1.20E-04	624	2.10E-04	634	3.30E-03	644	0.00E+00

HEIGHT	TOWER 5 GLN	TOWER 5 CONC	TOWER 6 GLN	TOWER 6 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	GROUP 1 CONC
701	2.29E-04
702	8.28E-04
703	6.12E-04
704	6.[illegible]E-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	1200. M GLN	1200. M CONC	1600. M GLN	1600. M 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	3.85E-06	474	0.00E+00
165.	355	1.77E-04	475	9.22E-06
168.	356	5.57E-06	476	0.00E+00
174.	358	5.73E-05	478	2.53E-06
180.	360	5.65E-05	480	0.00E+00
183.	361	4.08E-06	481	4.76E-05
186.	362	0.00E+00	482	2.25E-05
192.	364	6.09E-06	484	2.68E-05
195.	365	0.00E+00	485	6.78E-06
198.	366	0.00E+00	486	2.03E-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	1.79E-05
222.	374	1.18E-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

HEIGHT	TOWER 1 GLN	TOWER 1 CONC	TOWER 2 GLN	TOWER 2 CONC	TOWER 3 GLN	TOWER 3 CONC	TOWER 4 GLN	TOWER 4 CONC
0.5	610	2.06E-05	620	2.40E-04	630	0.00E+00	640	0.00E+00
7.5	611	0.00E+00	621	7.13E-05	631	0.00E+00	641	3.20E-05
15.0	612	0.00E+00	622	2.94E-04	632	0.00E+00	642	2.93E-05
23.0	613	7.22E-05	623	7.27E-05	633	7.98E-06	643	9.03E-05
30.5	614	5.03E-05	624	3.26E-04	634	0.00E+00	644	2.00E-05

HEIGHT	TOWER 5 GLN	TOWER 5 CONC	TOWER 6 GLN	TOWER 6 CONC
23.0	653	0.00E+00	663	1.06E-05
30.5	654	3.16E-05	664	0.00E+00

EOCR TEST 22 NRC STAB E 7/21/76 0740-0845 MST

GAS F AVERAGE WINDS: SPEED 3.3 M/S ;DIRECTION 15. DEGREES
SOURCE STRENGTH 1.0364 G/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	0.00E+00	202	7.31E-08	262	2.10E-06
138.	23	0.00E+00	83	0.00E+00	203	8.75E-07	263	0.00E+00
144.	24	9.14E-06	84	5.57E-06	204	9.11E-06	264	2.17E-05
150.	25	0.00E+00	85	1.73E-05	205	1.97E-05	265	6.43E-06
156.	26	0.00E+00	86	1.37E-05	206	5.00E-05	266	0.00E+00
162.	27	1.65E-04	87	0.23E-05	207	7.90E-06	267	0.00E+00
168.	28	0.00E+00	88	9.23E-05	208	0.00E+00	268	5.73E-06
174.	29	0.00E+00	89	6.25E-05	209	0.00E+00	269	0.00E+00
180.	30	2.36E-04	90	1.40E-04	210	9.73E-06	270	2.21E-06
186.	31	0.00E+00	91	1.35E-04	211	7.30E-05	271	0.00E+00
192.	32	0.00E+00	92	2.62E-04	212	0.00E+00	272	0.00E+00
198.	33	6.12E-04	93	1.58E-04	213	7.40E-06	273	1.95E-05
204.	34	0.00E+00	94	1.31E-04	214	1.97E-05	274	0.00E+00
210.	35	0.00E+00	95	1.33E-04	215	9.03E-06	275	0.00E+00
216.	36	1.47E-05	96	6.13E-05	216	2.39E-06	276	0.00E+00
222.	37	0.00E+00	97	1.64E-05	217	1.24E-06	277	1.01E-06
228.	38	0.00E+00	98	5.10E-05	218	0.00E+00	278	0.00E+00
234.	39	8.80E-05	99	2.49E-06	219	0.00E+00	279	8.03E-06
240.	40	0.00E+00	100	0.00E+00	220	0.00E+00	280	1.36E-05
246.	41	0.00E+00	101	1.40E-06	221	0.00E+00	281	0.00E+00
252.	42	0.00E+00	102	1.40E-06	222	0.00E+00	282	0.00E+00
258.	43	0.00E+00	103	0.01E-07	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	1.70E-06	224	0.00E+00	284	0.00E+00
270.	45	0.00E+00	105	1.44E-06	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	1.44E-06	226	0.00E+00	286	0.00E+00
282.	47	0.00E+00	107	1.70E-06	227	0.00E+00	287	0.00E+00
288.	48	0.00E+00	108	1.44E-06	228	0.00E+00	288	0.00E+00
294.	49	1.41E-06	109	0.00E+00	229	0.00E+00	289	0.00E+00

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
126.	342	0.00E+00	462	7.38E-07
129.	343	1.87E-06	463	0.00E+00
132.	344	2.85E-06	464	0.00E+00
135.	345	2.73E-06	465	0.00E+00
138.	346	2.19E-06	466	2.14E-06
141.	347	0.00E+00	467	1.36E-06
144.	348	1.40E-06	468	0.00E+00
147.	349	5.00E-06	469	5.71E-07
150.	350	1.32E-06	470	3.00E-06
153.	351	9.55E-06	471	0.00E+00
156.	352	1.15E-05	472	7.09E-07
159.	353	1.17E-06	473	0.78E-07
162.	354	7.13E-07	474	1.41E-06
165.	355	1.25E-06	475	0.00E+00
168.	356	2.63E-06	476	0.00E+00
174.	358	2.35E-06	478	0.00E+00
177.	359	4.47E-06	479	1.48E-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 1.2288 G/S RELEASED STACK

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	2.93E-05
703	3.52E-05
704	4.16E-05

GAS B AVERAGE WINDS: SPEED 4.6 M/S ;DIRECTION 19. DEGREES
SOURCE STRENGTH 0.6296 G/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	1.33E-06	66	0.00E+00	186	0.00E+00	246	0.00E+00
84.	14	0.00E+00	74	7.58E-08	194	0.00E+00	254	0.00E+00
90.	15	0.00E+00	75	3.73E-07	195	0.00E+00	255	0.00E+00
96.	16	0.00E+00	76	2.87E-07	196	0.00E+00	256	0.00E+00
114.	19	0.00E+00	79	2.08E-07	199	0.00E+00	259	0.00E+00
126.	21	0.00E+00	81	3.55E-06	201	0.00E+00	261	0.00E+00
144.	24	6.32E-06	84	6.00E+00	204	0.00E+00	264	0.00E+00
156.	26	0.00E+00	86	1.16E-06	206	0.00E+00	266	0.00E+00
162.	27	5.16E-05	87	2.68E-06	207	0.00E+00	267	0.00E+00
174.	29	0.00E+00	89	2.44E-05	209	0.00E+00	269	0.00E+00
180.	30	2.22E-04	90	5.22E-05	210	0.00E+00	270	0.00E+00
186.	31	0.00E+00	91	9.76E-05	211	0.00E+00	271	0.00E+00
198.	33	3.23E-04	93	2.36E-04	213	2.55E-05	273	0.00E+00
204.	34	0.00E+00	94	3.04E-05	214	2.04E-05	274	3.73E-07
210.	35	0.00E+00	95	0.00E+00	215	0.00E+00	275	2.04E-06
216.	36	1.78E-04	96	1.16E-04	216	1.57E-05	276	0.00E+00
222.	37	0.00E+00	97	6.32E-05	217	1.77E-06	277	0.00E+00
228.	38	0.00E+00	98	1.50E-05	218	0.00E+00	278	0.00E+00
234.	39	1.64E-05	99	7.00E-06	219	0.00E+00	279	0.00E+00
240.	40	0.00E+00	100	3.83E-06	220	0.00E+00	280	0.00E+00
246.	41	4.71E-07	101	0.00E+00	221	0.00E+00	281	0.00E+00

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-05
222.	374	1.15E-06	494	2.36E-06
229.	376	0.00E+00	496	3.58E-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 0.6296 G/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	5.24E-05	642	1.21E-05
23.0	613	6.69E-05	623	1.01E-06	633	5.70E-06	643	0.53E-09
30.5	614	2.34E-05	624	2.60E-04	634	5.28E-06	644	0.00E+00

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	0.00E+00	660	2.53E-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	3.70E-06
703	9.12E-05

EDCR TEST 23 NRC STRB 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.	1	3.86E-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	7.99E-03	69	0.00E+00	189	0.00E+00	249	0.00E+00
72.	13	4.30E-02	72	0.00E+00	192	0.00E+00	252	0.00E+00
90.	15	3.17E-03	75	0.00E+00	195	0.00E+00	255	0.00E+00
108.	18	1.98E-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
132.	23	0.00E+00	82	1.84E-05	202	0.00E+00	262	0.00E+00
138.	23	0.00E+00	83	1.45E-05	203	0.00E+00	263	0.00E+00
144.	24	1.98E-03	84	9.87E-05	204	1.73E-06	264	8.13E-07
150.	25	0.00E+00	85	1.18E-05	205	1.00E+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	2.13E-04	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	3.89E-04	208	1.43E-06	268	5.97E-07
174.	29	0.00E+00	89	1.96E-04	209	4.03E-06	269	0.00E+00
180.	30	5.99E-04	90	2.65E-04	210	6.07E-06	270	0.00E+00
186.	31	0.00E+00	91	2.16E-04	211	1.48E-05	271	2.67E-06
192.	32	0.00E+00	92	2.46E-04	212	1.64E-05	272	2.02E-06
198.	33	3.23E-04	93	2.03E-04	213	1.38E-05	273	3.93E-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	1.87E-05	275	2.87E-06
216.	36	2.62E-04	96	1.86E-04	216	7.94E-05	276	1.34E-06
222.	37	0.00E+00	97	0.35E+05	217	3.92E-04	277	2.16E-07
228.	38	0.00E+00	98	3.96E-05	218	1.85E-06	278	0.00E+00
234.	39	1.83E-04	99	2.07E-05	219	0.00E+00	279	1.02E-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	4.29E-05	105	2.35E-06	225	0.00E+00	285	0.00E+00
276.	46	0.00E+00	106	0.11E-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
308.	50	0.00E+00	110	1.32E-06	230	0.00E+00	290	0.00E+00
306.	51	3.57E-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

EDCR TEST 23 NRC STRB E 7/21/76 0748-0846 MST

GAS F AVERAGE WINDS: SPEED 3.3 M/S ;DIRECTION 18. DEGREES
SOURCE STRENGTH 1.6384 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	1200. M		1600. M	
	GLN	CONC	GLN	CONC
171.	360	1.36E-06	460	0.00E+00
180.	361	3.62E-07	461	0.00E+00
186.	362	2.43E-06	462	6.37E-06
189.	363	2.57E-06	463	9.63E-07
192.	364	3.34E-06	464	1.03E-06
195.	365	0.00E+00	465	4.04E-06
198.	366	4.47E-06	466	5.03E-06
201.	367	0.00E+00	467	2.42E-06
204.	368	1.74E-05	468	0.00E+00
207.	369	2.86E-05	469	2.04E-06
210.	370	6.68E-06	470	0.00E+00
213.	371	4.43E-06	471	0.00E+00
216.	372	2.74E-05	472	0.00E+00
219.	373	1.44E-05	473	0.00E+00
222.	374	1.48E-05	474	0.00E+00
228.	376	4.47E-06	476	2.01E-06
240	388	2.88E-06	488	8.63E-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	1.58E-04	630	0.00E+00	640	0.00E+00
7.5	611	1.09E-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	2.38E-05	644	2.37E-05

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	0.79E-06	660	7.48E-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	7.04E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
704	4.55E-05

EDCR TEST 23 NRC STRB 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	1200. M		1600. M	
	GLN	CONC	GLN	CONC
126.	348	0.00E+00	468	1.31E-05
135.	349	0.00E+00	469	5.46E-06
144.	350	1.52E-07	470	0.00E+00
180.	362	4.95E-07	482	0.00E+00
189.	363	1.53E-06	483	2.55E-07
192.	364	9.95E-07	484	2.76E-07
198.	366	2.20E-06	486	1.43E-06
204.	368	2.04E-06	488	1.95E-06
207.	369	2.21E-06	489	7.31E-06
210.	370	3.10E-06	490	9.64E-07
213.	371	1.52E-06	491	1.29E-06
216.	372	2.29E-06	492	1.61E-06
222.	374	1.17E-06	494	0.00E+00
228.	376	1.36E-06	496	0.00E+00
234.	378	3.29E-07	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	3.63E-04	620	2.03E-04	630	0.00E+00	640	0.00E+00
7.5	611	2.66E-04	621	0.00E+00	631	6.28E-05	641	8.94E-05
15.0	612	1.84E-04	622	5.01E-06	632	5.94E-05	642	7.77E-05
23.0	613	0.00E+00	623	2.39E-04	633	6.45E-05	643	6.18E-05
30.5	614	9.40E-05	624	1.73E-04	634	7.02E-05	644	3.57E-06

HEIGHT	TOWER 5		TOWER 6	
	GLN	CONC	GLN	CONC
0.5	650	6.87E-06	660	1.33E-05
7.5	651	9.15E-06	661	9.97E-06
15.0	652	1.29E-05	662	1.69E-05
23.0	653	1.36E-06	663	1.60E-05
30.5	654	0.00E+00	664	6.90E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	9.77E-04
702	1.65E-03
703	1.22E-03
704	9.73E-04

EDCR TEST 23 NRC STRB E 7/21/76 0748-0846 MST

GAS B AVERAGE WINDS: SPEED 3.3 M/S ;DIRECTION 18. DEGREES
SOURCE STRENGTH 0.635 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+00	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	3.16E-04	90	3.53E-04	210	0.00E+00	270	0.00E+00
186.	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	1.48E-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-05	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

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	3.53E-04	620	2.96E-04	630	0.00E+00	640	0.00E+00
7.5	611	3.47E-04	621	1.00E+00	631	6.79E-05	641	1.51E-04
15.0	612	2.69E-04	622	0.00E+00	632	5.31E-05	642	5.41E-05
23.0	613	0.00E+00	623	1.99E-04	633	4.69E-05	643	0.00E+00
30.5	614	2.85E-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	3.91E-06	662	1.96E-05
23.0	653	2.28E-06	663	2.75E-05
30.5	654	0.00E+00	664	9.56E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
701	7.61E-05
704	1.52E-04

EDCR 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	GLN	50. M CONC	GLN	100. M CONC	GLN	400. M CONC	GLN	800. M 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	1.63E-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
90.	15	1.69E-03	75	4.00E+00	195	0.00E+00	255	0.00E+00
108.	18	1.12E-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	7.81E-05	202	6.04E+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-5	205	0.00E+00	265	0.00E+00
156.	26	0.00E+00	86	0.00E+00	206	0.00E+00	266	0.00E+00
162.	27	1.62E-03	87	1.21E-04	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	1.23E-04	208	9.74E-07	268	0.00E+00
174.	29	0.00E+00	89	1.71E-04	209	1.36E-06	269	4.63E-07
180.	30	7.80E-04	90	2.95E-04	210	2.16E-06	270	0.00E+00
186.	31	1.68E+00	91	2.07E-04	211	2.95E-06	271	0.00E+00
192.	32	0.00E+00	92	2.49E-04	212	7.47E-06	272	1.86E-06
198.	33	5.65E-04	93	2.59E-04	213	9.72E-06	273	1.32E-06
204.	34	0.00E+00	94	1.84E-04	214	2.14E-06	274	1.89E-06
210.	35	0.00E+00	95	1.06E-04	215	0.00E+00	275	1.42E-06
216.	36	5.59E-04	96	2.59E-04	216	1.74E-05	276	1.91E-06
222.	37	0.00E+00	97	5.28E-04	217	1.59E-06	277	2.87E-06
228.	38	0.00E+00	98	1.38E-04	218	1.55E-05	278	1.38E-06
234.	39	4.75E-04	99	1.62E-04	219	7.69E-06	279	4.34E-07
240.	40	0.00E+00	100	7.02E-04	220	0.00E+00	280	0.00E+00
246.	41	0.00E+00	101	5.02E-04	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-04	223	0.00E+00	283	0.00E+00
264.	44	0.00E+00	104	1.96E-04	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	2.37E-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
300.	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

EDCR 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 1.9242 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
198.	25	0.00E+00	85	0.00E+00	205	0.00E+00	265	3.03E-06
156.	26	0.00E+00	86	2.29E-06	206	9.02E+00	266	2.09E-06
162.	27	0.00E+00	87	1.77E-05	207	0.00E+00	267	2.67E-06
168.	28	0.00E+00	88	3.17E-05	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	8.14E-06	209	2.00E-06	269	1.59E-06
180.	30	1.32E-04	90	1.00E-04	210	5.14E-06	270	2.29E-06
186.	31	0.00E+00	91	1.34E-04	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	1.12E-04	212	7.80E-05	272	0.00E+00
198.	33	2.29E-05	93	1.31E-04	213	3.40E-06	273	0.00E+00
204.	34	0.00E+00	94	1.05E-04	214	5.49E-05	274	3.17E-06
210.	35	0.00E+00	95	6.13E-05	215	0.00E+00	275	0.00E+00
216.	36	0.00E+00	96	7.70E-05	216	1.48E-05	276	0.00E+00
222.	37	0.00E+00	97	2.60E-05	217	7.55E-06	277	0.00E+00
228.	38	0.00E+00	98	0.00E+00	218	3.18E-06	278	0.00E+00
234.	39	0.00E+00	99	0.00E+00	219	2.91E-06	279	1.78E-06
240.	40	0.00E+00	100	0.00E+00	220	0.00E+00	280	9.83E-06
246.	41	0.00E+00	101	0.00E+00	221	0.00E+00	281	7.15E-06
252.	42	0.00E+00	102	7.93E-07	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	1.02E-06	224	0.00E+00	284	0.00E+00
270.	45	0.00E+00	105	3.02E-05	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.	51	0.00E+00	111	0.00E+00	231	0.00E+00	291	0.00E+00
324.	54	0.00E+00	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
360.	60	2.46E-06	120	0.00E+00	240	0.00E+00	300	0.00E+00

BEARING	GLN	1200. M CONC	GLN	1600. M CONC
123.	341	2.46E-06	461	0.00E+00
129.	343	2.32E-06	463	1.04E-06
135.	345	8.30E-07	465	1.07E-06
138.	346	1.25E-06	466	2.93E-06
141.	347	1.30E-06	467	1.50E-06
144.	348	0.00E+00	468	1.17E-06
147.	349	4.47E-06	469	0.00E+00
150.	350	1.95E-06	470	1.09E-06
156.	352	0.00E+00	472	1.94E-06
159.	353	3.57E-06	473	0.00E+00
162.	354	1.45E-06	474	1.76E-06
168.	356	1.86E-06	476	3.80E-06
174.	358	3.51E-06	478	1.47E-06
177.	359	1.72E-05	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	2.89E-06	485	0.00E+00

EDCR 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	GLN	1200. M CONC	GLN	1600. M CONC
147.	349	2.59E-07	469	0.00E+00
174.	358	0.00E+00	478	6.87E-07
180.	360	0.00E+00	480	2.83E-06
186.	362	2.51E-07	482	1.23E-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	1.84E-06	487	0.00E+00
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	1.67E-06
216.	372	1.03E-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	GLN	TOWER 1 CONC	GLN	TOWER 2 CONC	GLN	TOWER 3 CONC	GLN	TOWER 4 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	2.84E-06
15.0	612	1.17E-04	622	1.02E-04	632	5.56E-05	642	3.42E-06
23.0	613	5.23E-05	623	7.33E-05	633	4.99E-05	643	5.46E-05
30.5	614	6.32E-05	624	1.06E-04	634	5.51E-05	644	1.38E-05

HEIGHT	GLN	TOWER 5 CONC	GLN	TOWER 6 CONC
0.5	650	2.10E-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	1.25E-05
30.5	654	0.00E+00	664	1.20E-05

MISCELLANEOUS SAMPLES

GROUP 1 GLN	CONC
701	1.22E-03
702	1.49E-03
703	1.12E-03
704	1.17E-03

EDCR 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 1.9242 GM/S RELEASED STACK

DOWNWIND DISTANCE(ARC) SAMPLES

BEARING	GLN	1200. M CONC	GLN	1600. M CONC
198.	366	2.31E-06	486	6.77E-06
201.	367	2.56E-06	487	1.42E-06
204.	368	0.00E+00	488	2.28E-05
210.	370	5.19E-07	490	6.16E-06
213.	371	4.42E-06	491	4.14E-06
216.	372	3.86E-06	492	6.43E-06
219.	373	0.00E+00	493	2.84E-06
222.	374	0.00E+00	494	1.71E-05
225.	375	4.52E-06	495	9.64E-06
228.	376	6.96E-06	496	6.27E-06
231.	377	2.66E-06	497	5.48E-06
234.	378	4.31E-06	498	9.13E-06
237.	379	3.53E-06	499	2.65E-06
240.	380	2.48E-06	500	1.85E-06

TOWER SAMPLES

HEIGHT	GLN	TOWER 1 CONC	GLN	TOWER 2 CONC	GLN	TOWER 3 CONC	GLN	TOWER 4 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	GLN	TOWER 5 CONC	GLN	TOWER 6 CONC
0.5	650	5.14E-06	660	3.40E-06
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

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

LAB B AVERAGE WINDS: SPEED 3.1 M/S DIRECTION 10. DEGREES
SOURCE STRENGTH 0.6000 G/S RELEASED ROOF

BEARING DISTANCE (ARC) SAMPLES

BEARING	50. M		100. M		400. M		800. M	
	GLN	CONC	GLN	CONC	GLN	CONC	GLN	CONC
156.	26	1.70E-05	86	0.00E+00	206	0.00E+00	266	0.00E+00
162.	27	7.06E-04	87	1.56E-05	207	0.00E+00	267	0.00E+00
168.	28	0.00E+00	88	3.32E-05	208	0.00E+00	268	0.00E+00
174.	29	0.00E+00	89	6.11E-05	209	0.00E+00	269	0.00E+00
180.	30	2.74E-04	90	7.24E-05	210	0.00E+00	270	0.00E+00
186.	31	0.00E+00	91	1.09E-04	211	0.00E+00	271	0.00E+00
192.	32	0.00E+00	92	1.20E-04	212	1.37E-06	272	0.00E+00
198.	33	1.71E-04	93	1.22E-04	213	3.40E-06	273	0.00E+00
204.	34	0.00E+00	94	9.15E-05	214	5.03E-07	274	0.00E+00
210.	35	0.00E+00	95	8.06E-05	215	0.00E+00	275	0.00E+00
216.	36	5.47E-06	96	8.21E-05	216	6.41E-06	276	0.00E+00
222.	37	0.00E+00	97	4.10E-05	217	5.57E-06	277	0.00E+00
228.	38	0.00E+00	98	1.11E-05	218	1.40E-06	278	0.00E+00
234.	39	1.50E-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	1.85E-05	622	6.40E-05	632	3.40E-06	642	0.00E+00
23.0	613	4.44E-05	623	1.30E-05	633	0.00E+00	643	3.95E-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	0.00E+00	660	8.60E-06
7.5	651	0.00E+00	661	5.69E-06
15.0	652	0.00E+00	662	3.69E-07
23.0	653	3.39E-06	663	5.60E-06
30.5	654	1.06E-05	664	4.73E-06

MISCELLANEOUS SAMPLES

GROUP 1	
GLN	CONC
703	3.40E-05
704	1.20E-04

POOR ORIGINAL

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

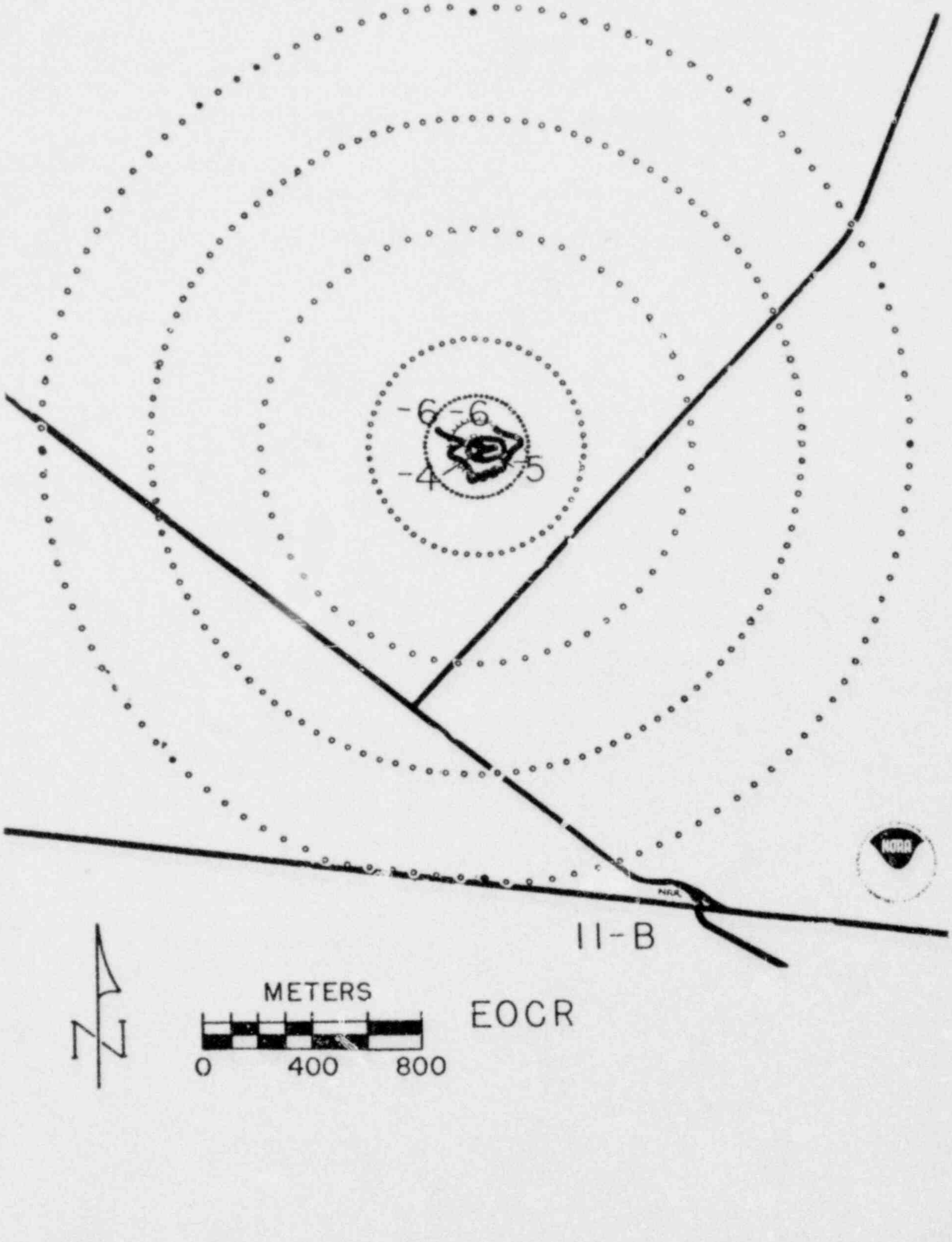
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IMAGE EVALUATION
TEST TARGET (MT-3)

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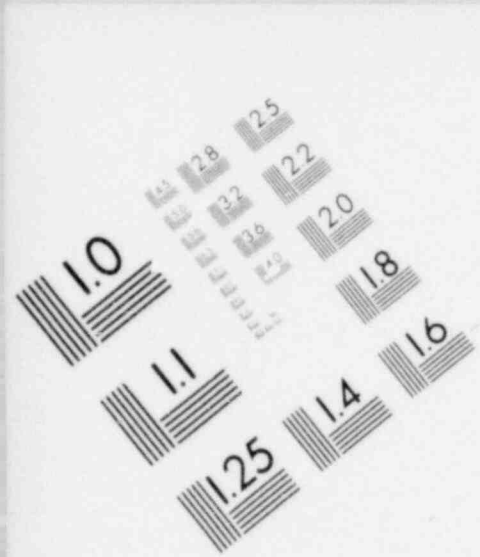

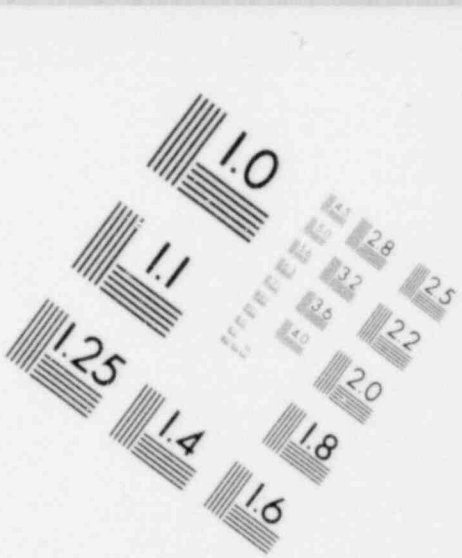

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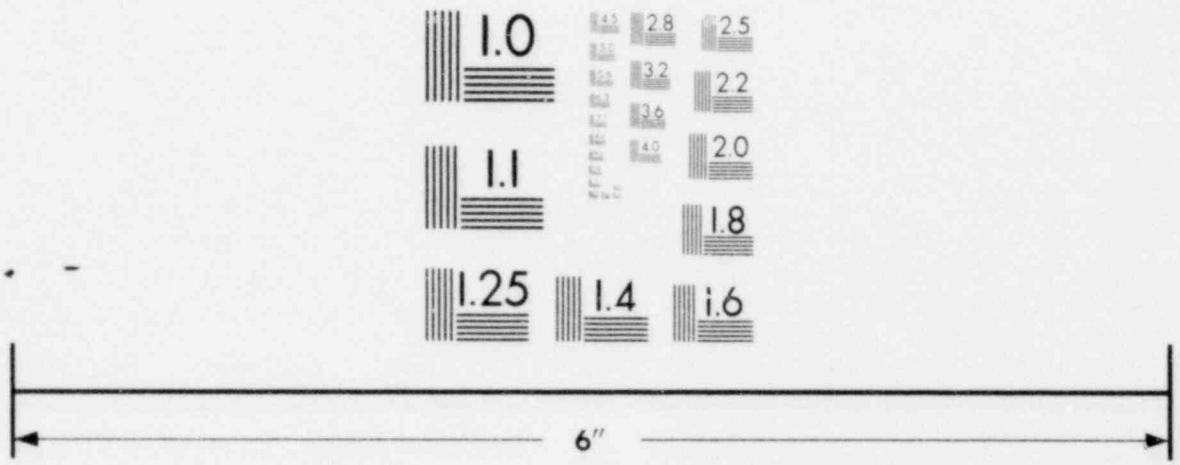

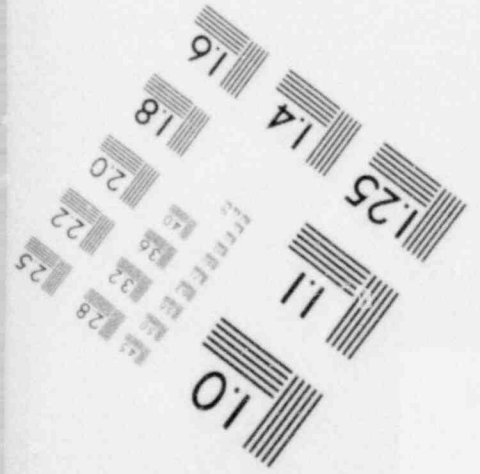

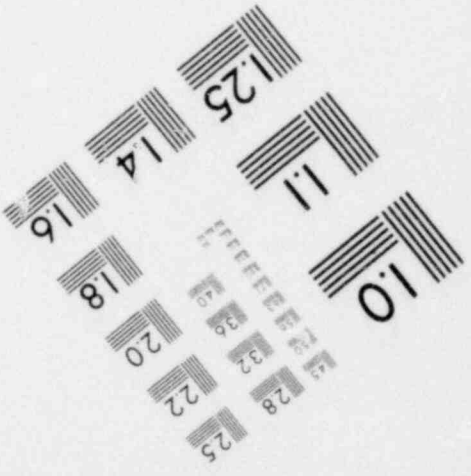

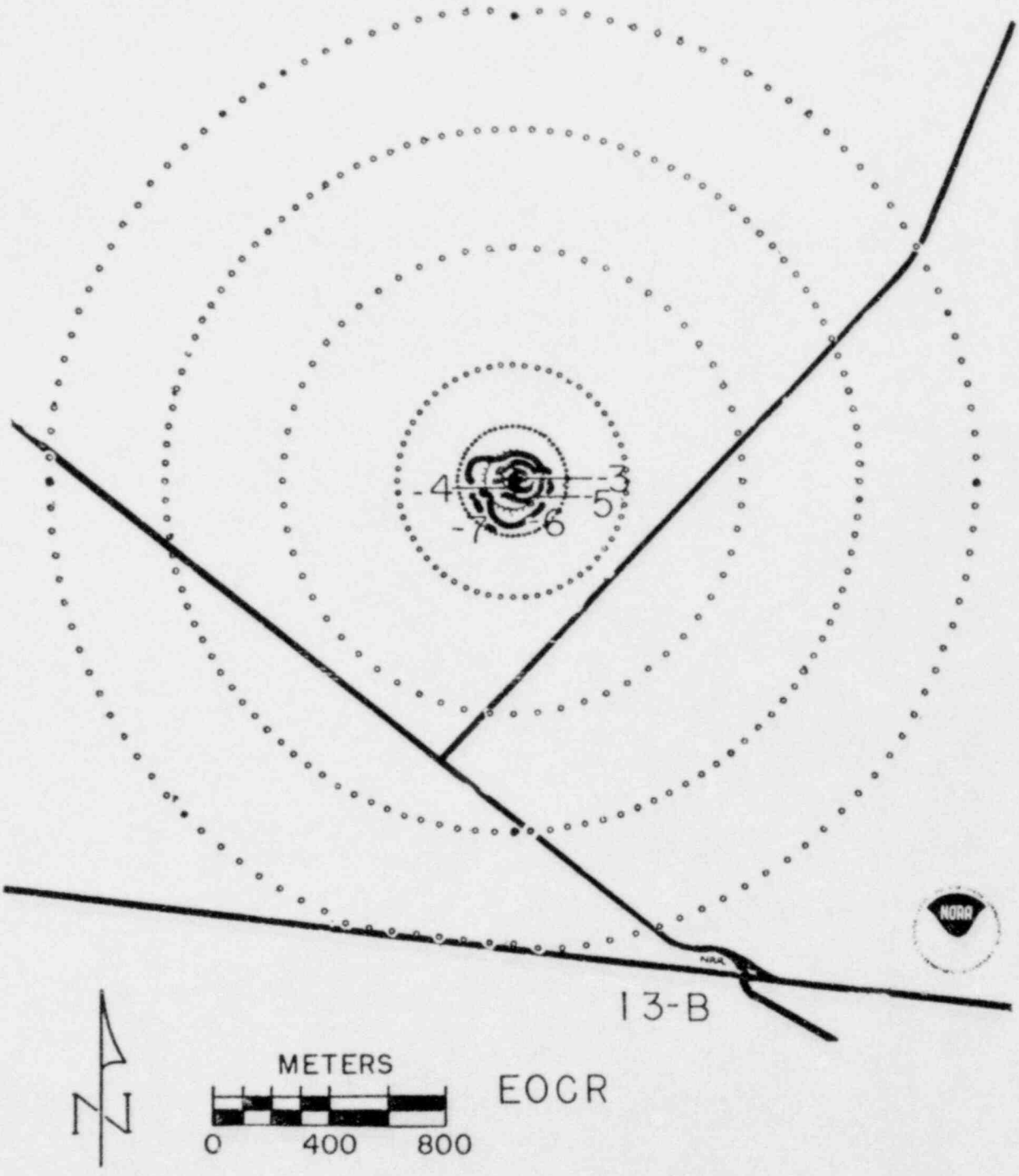
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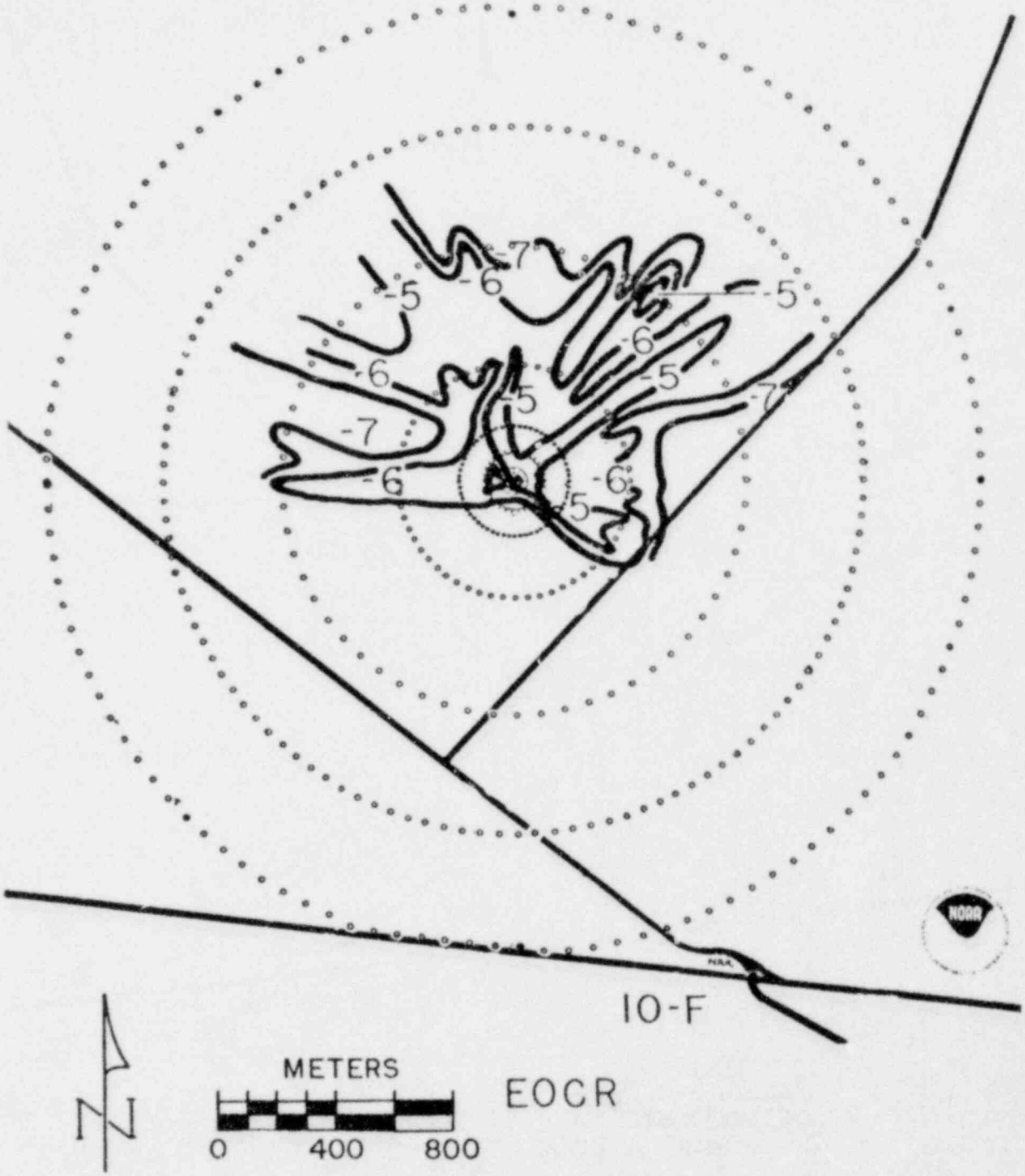
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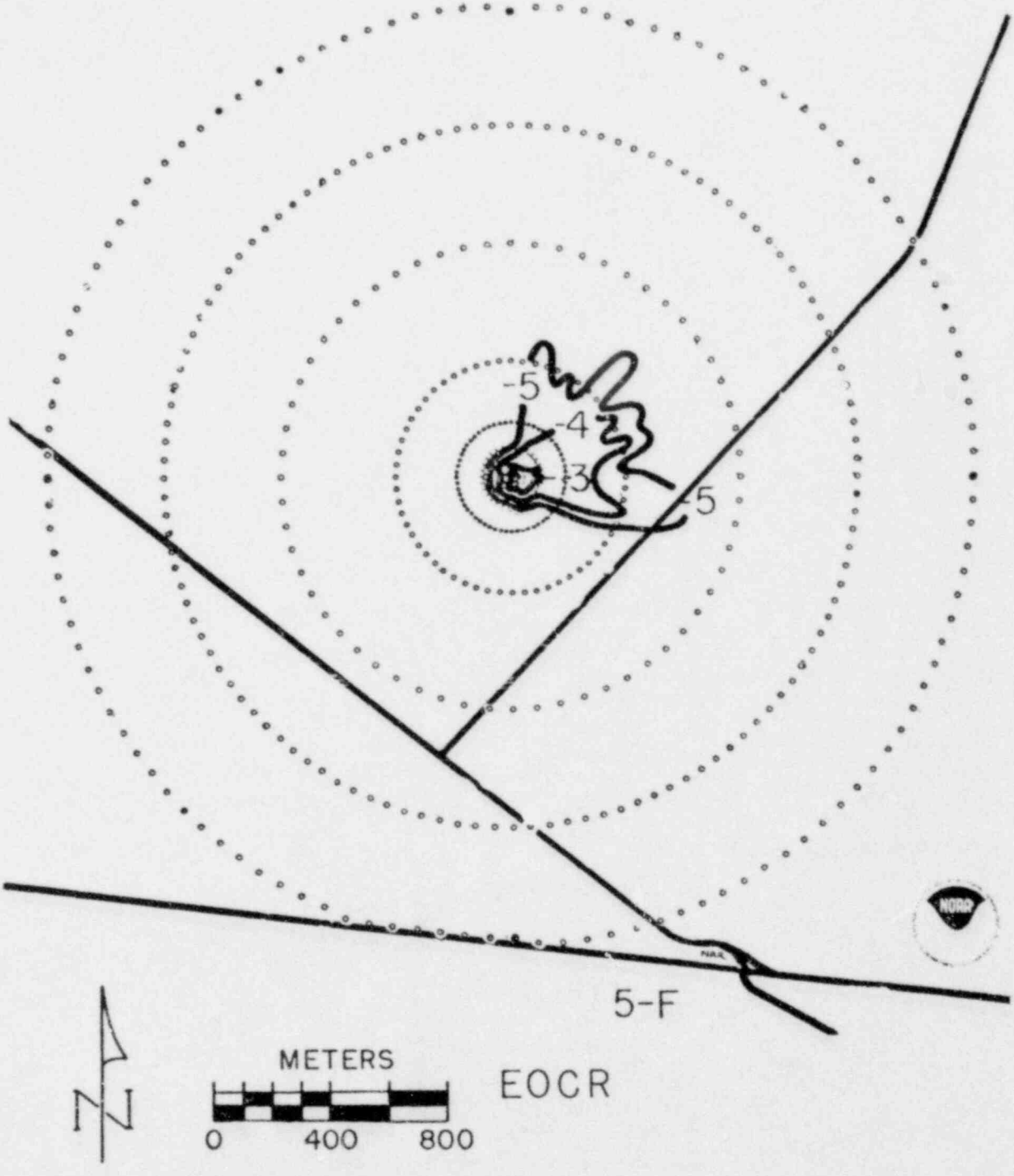
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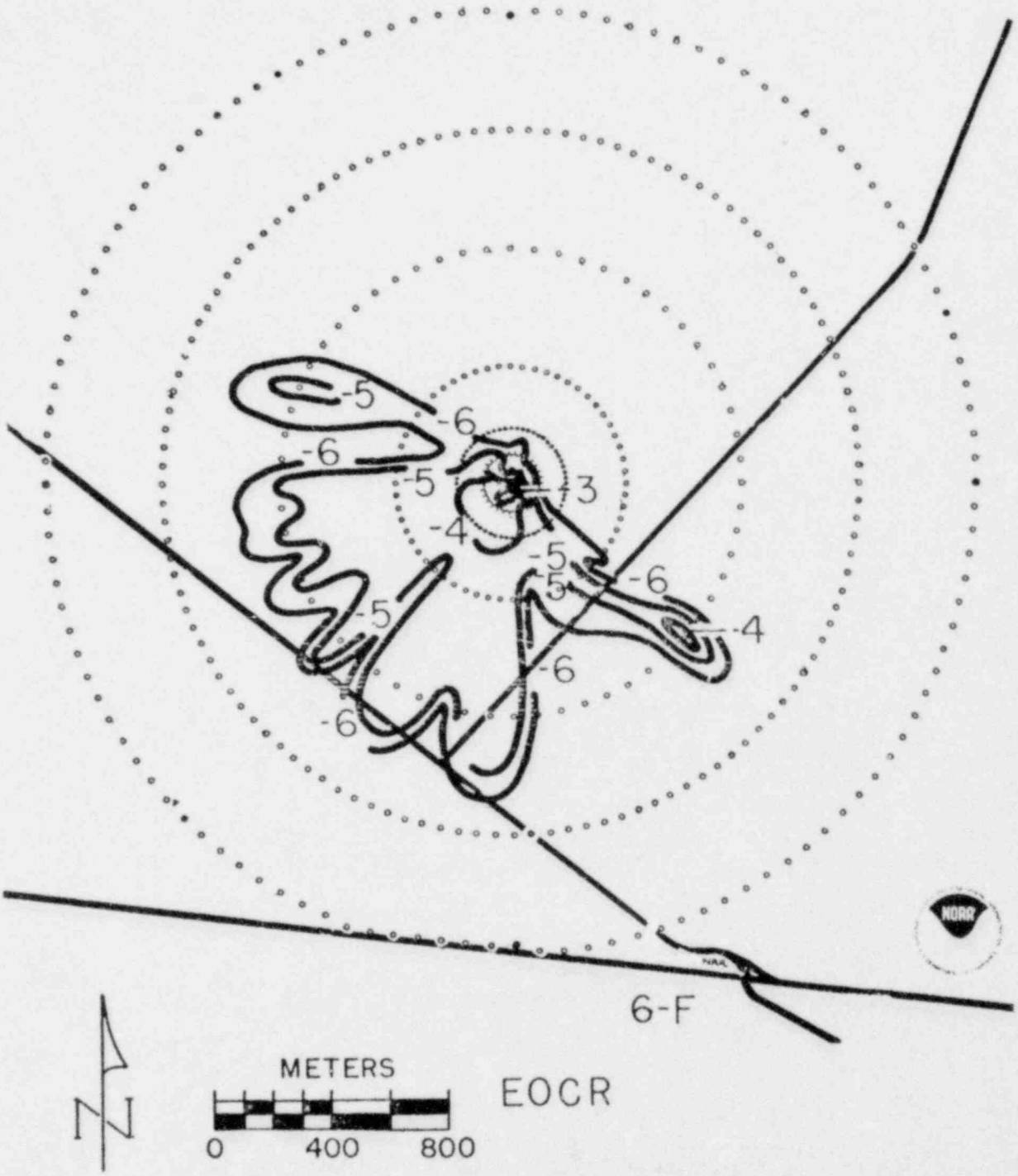
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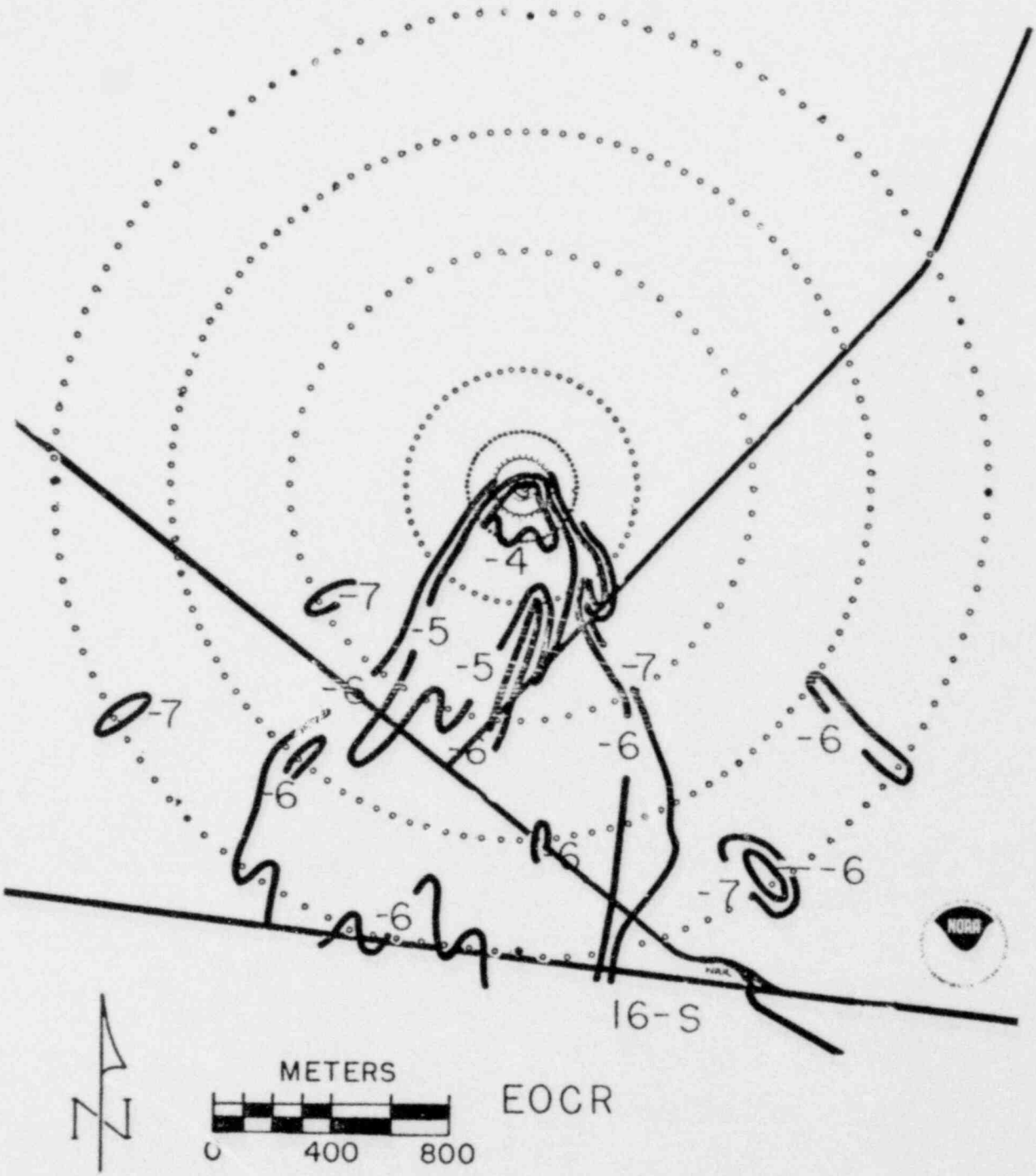
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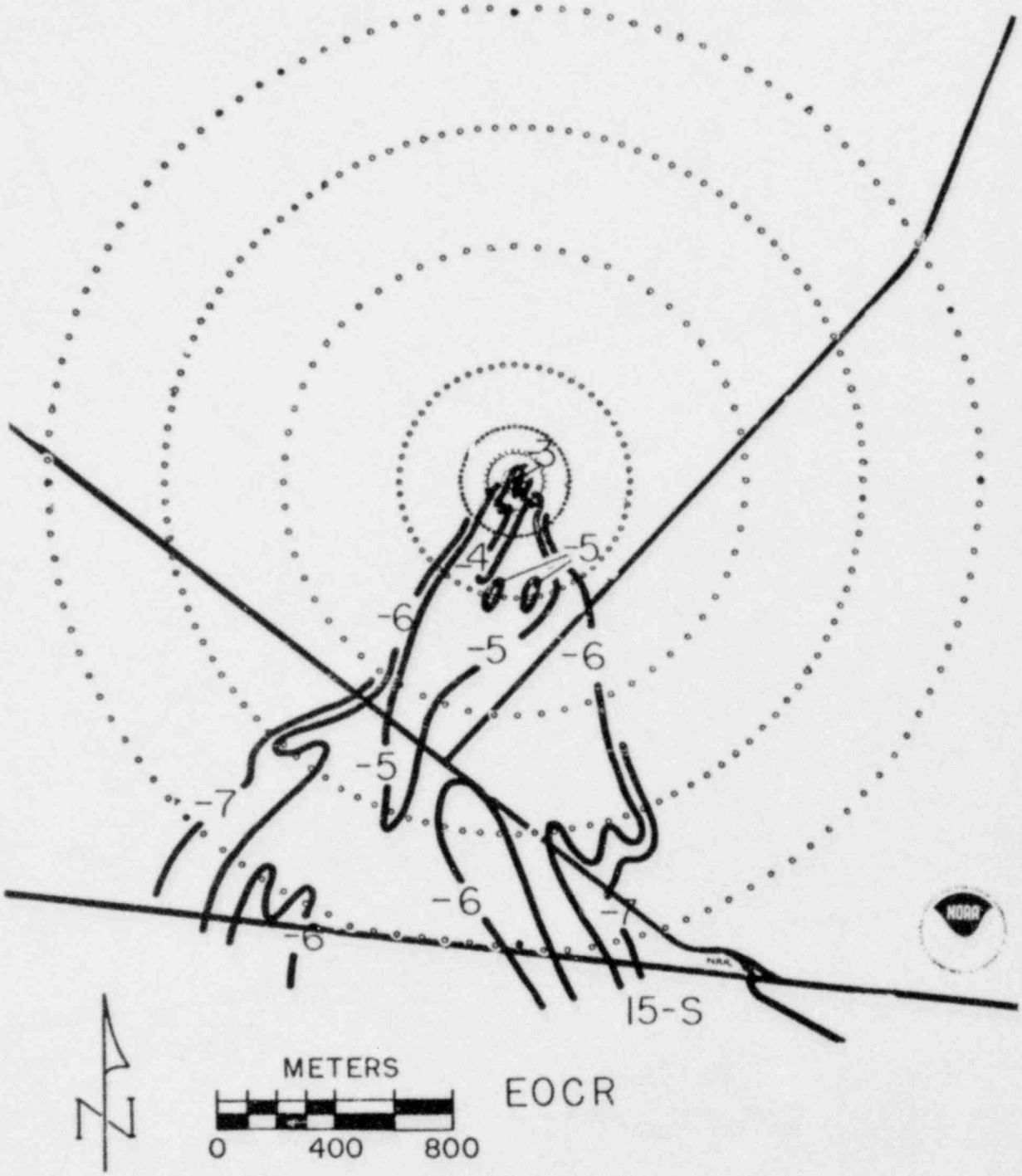
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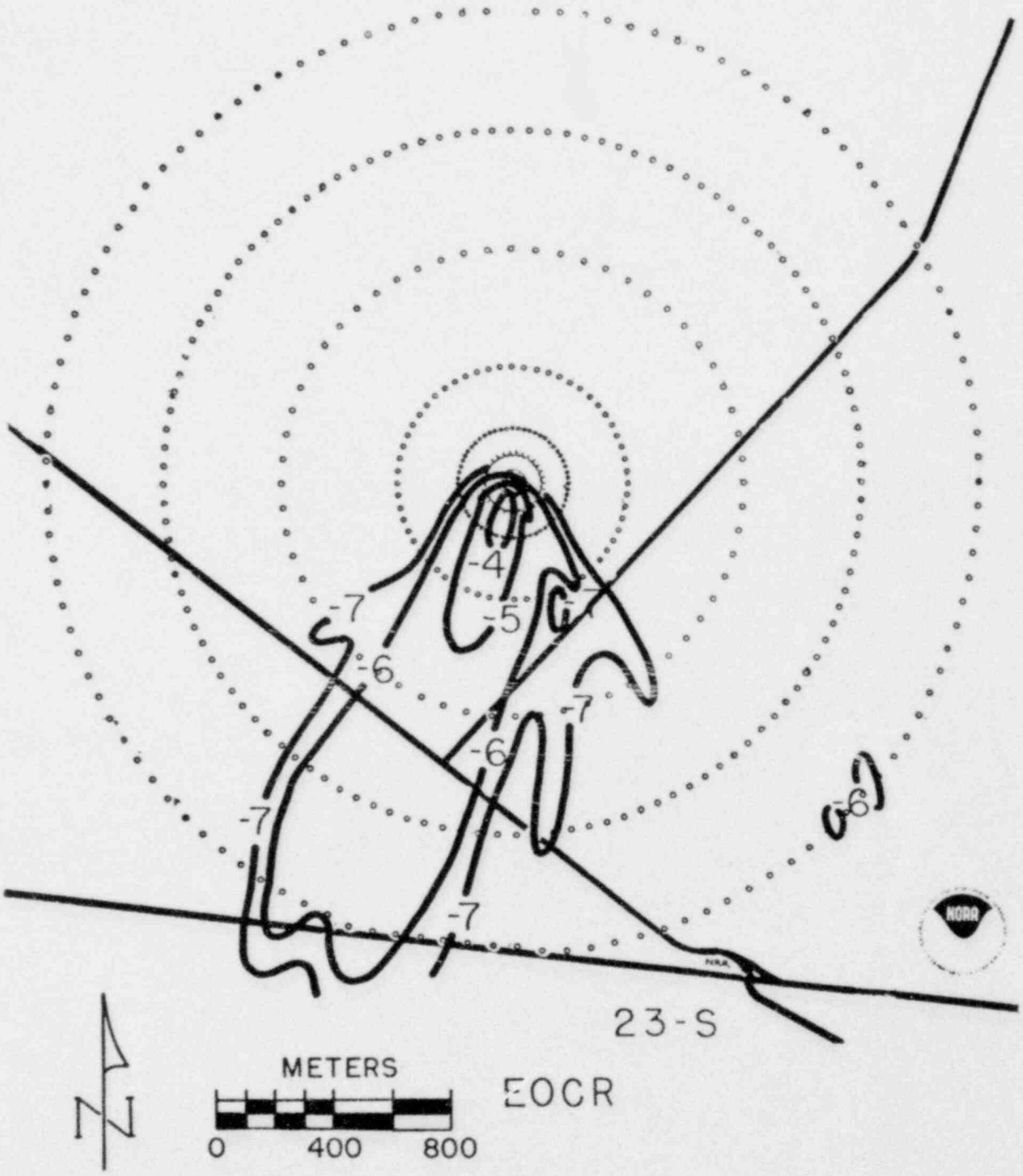
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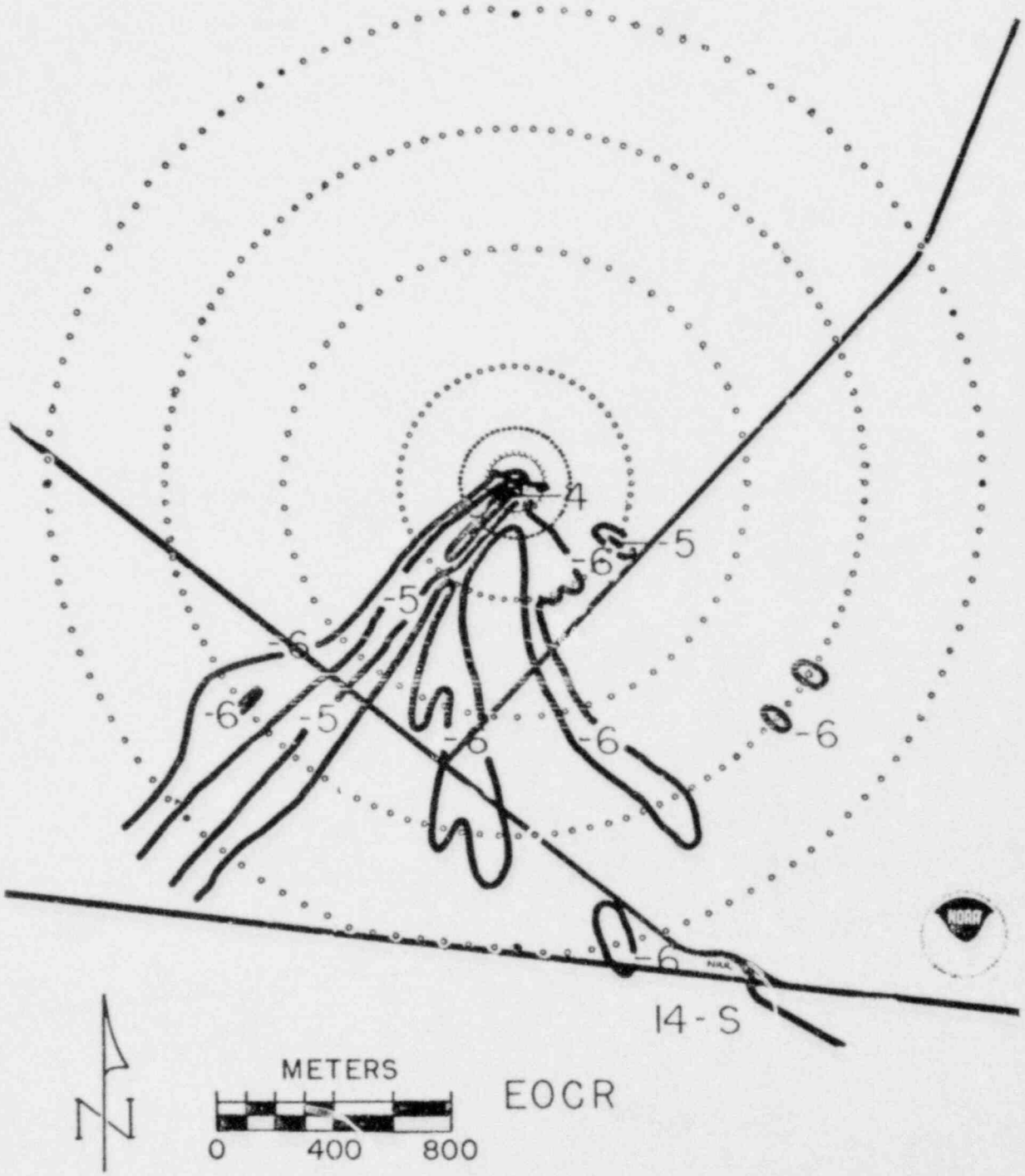
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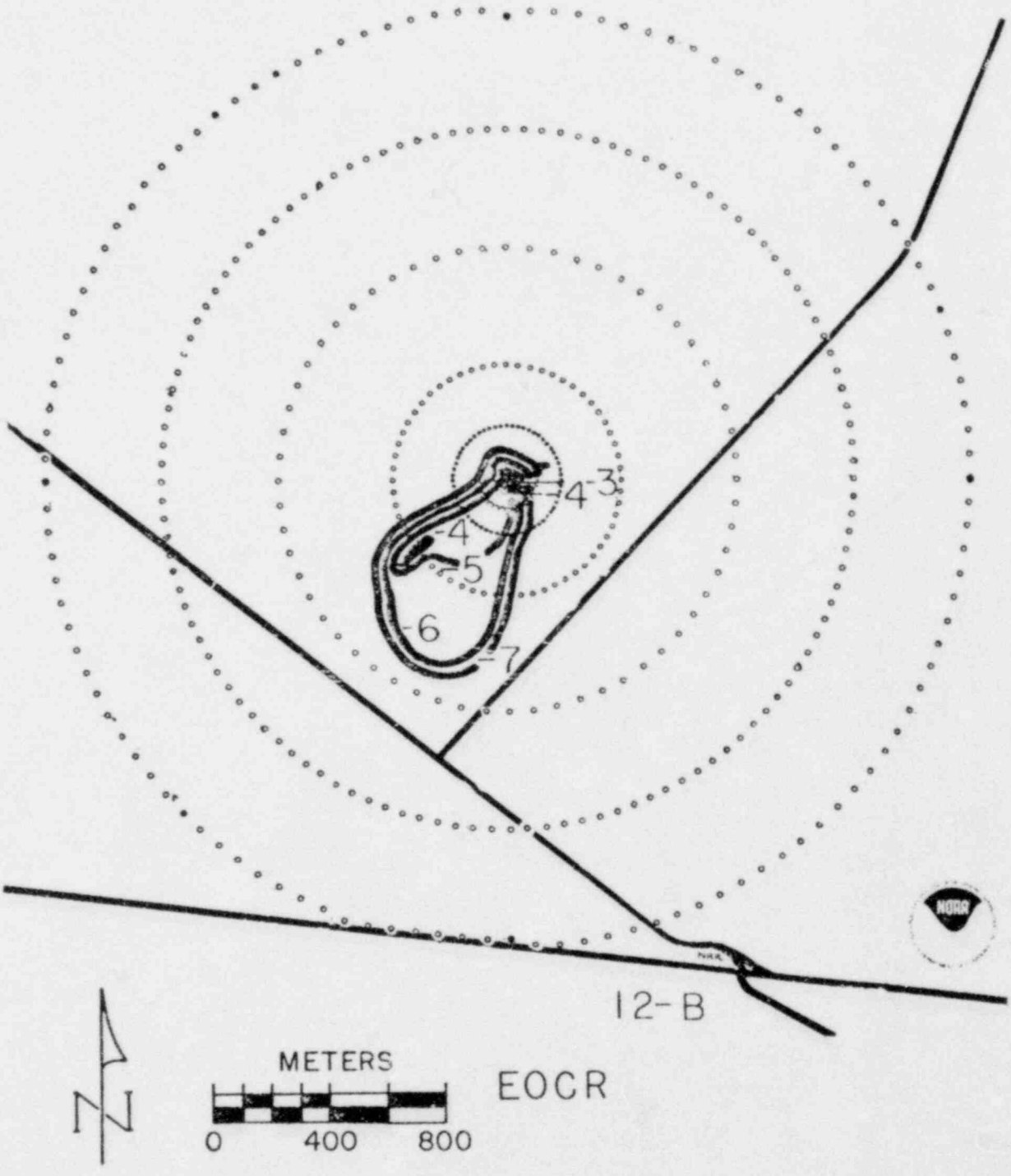
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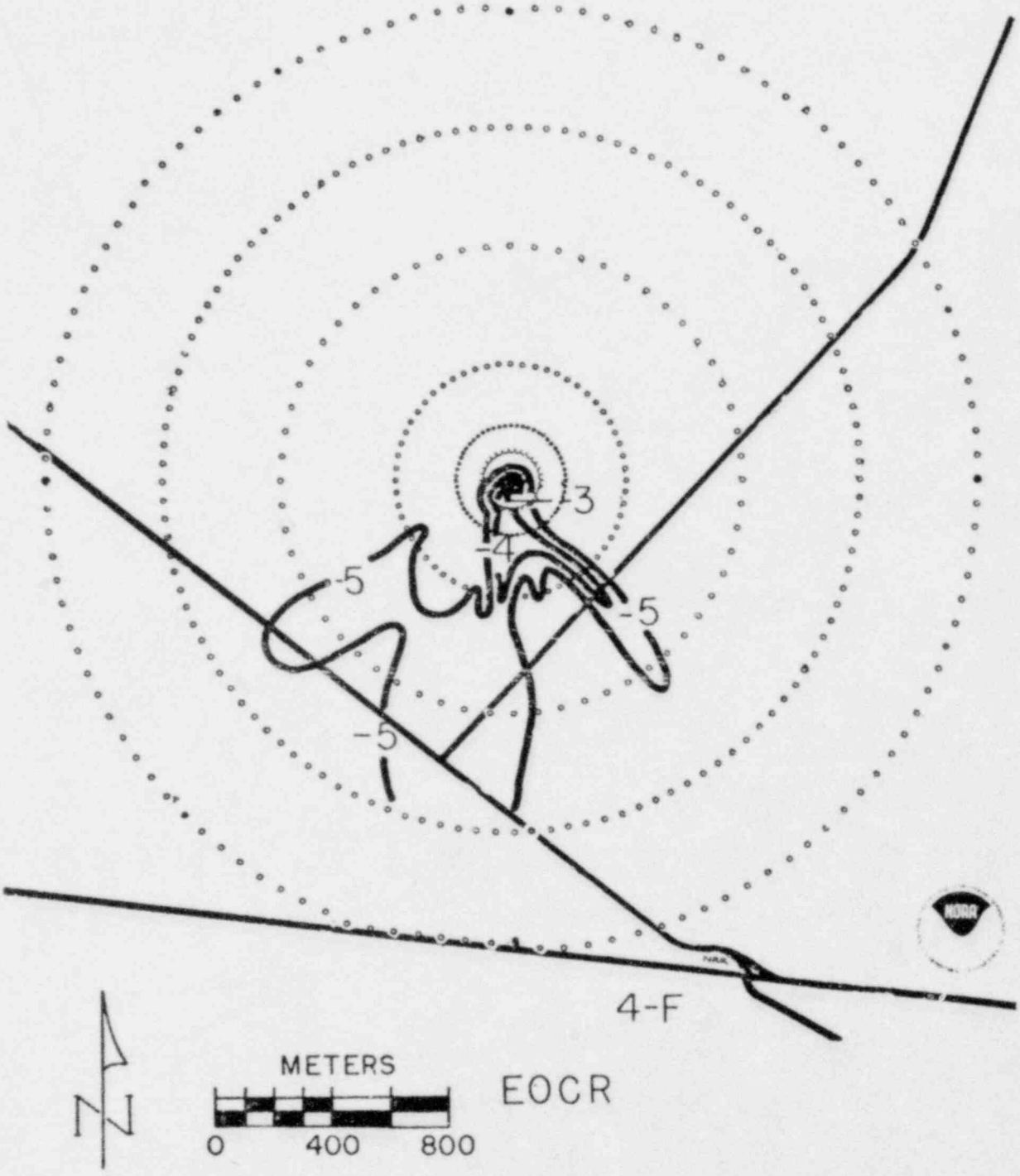
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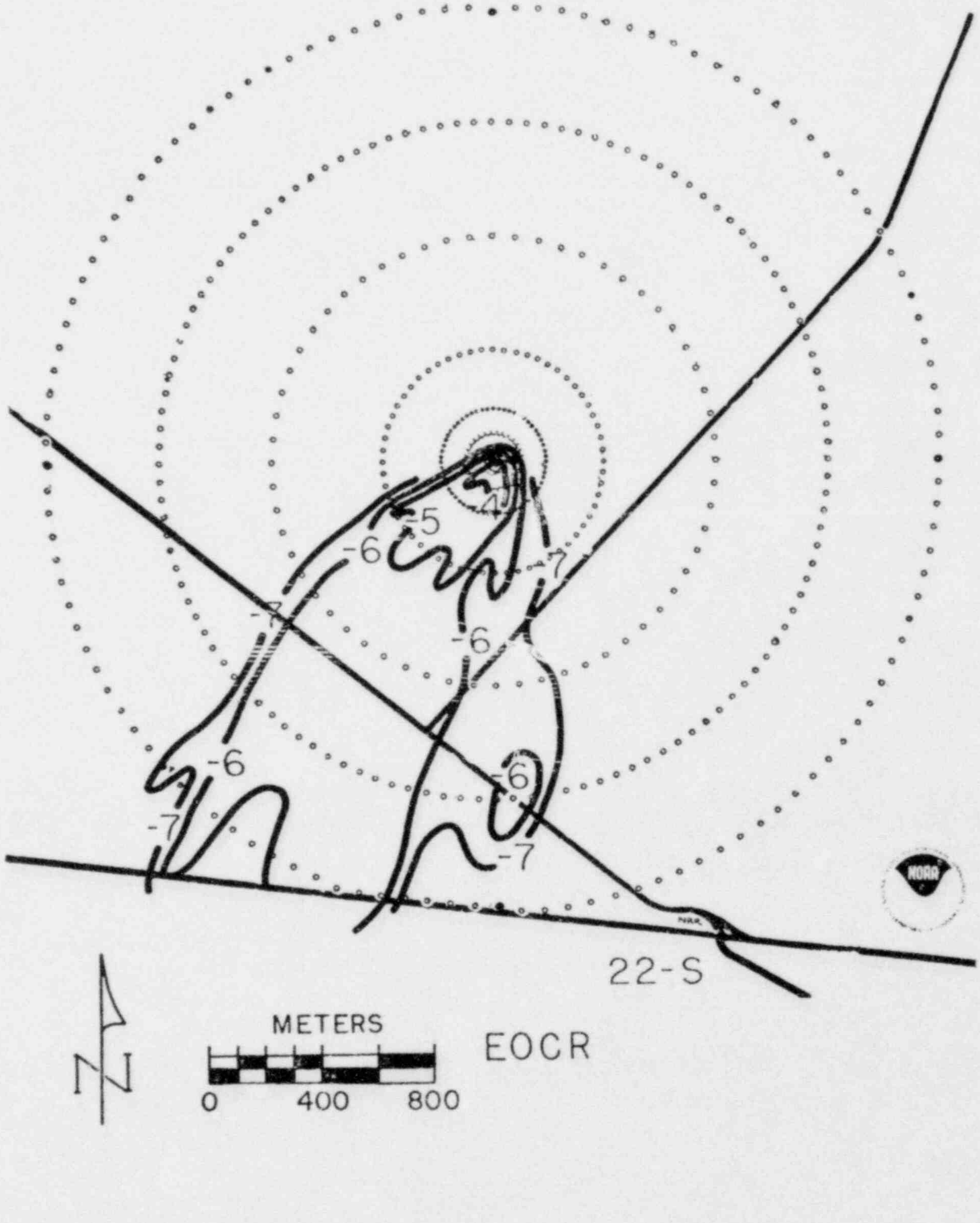
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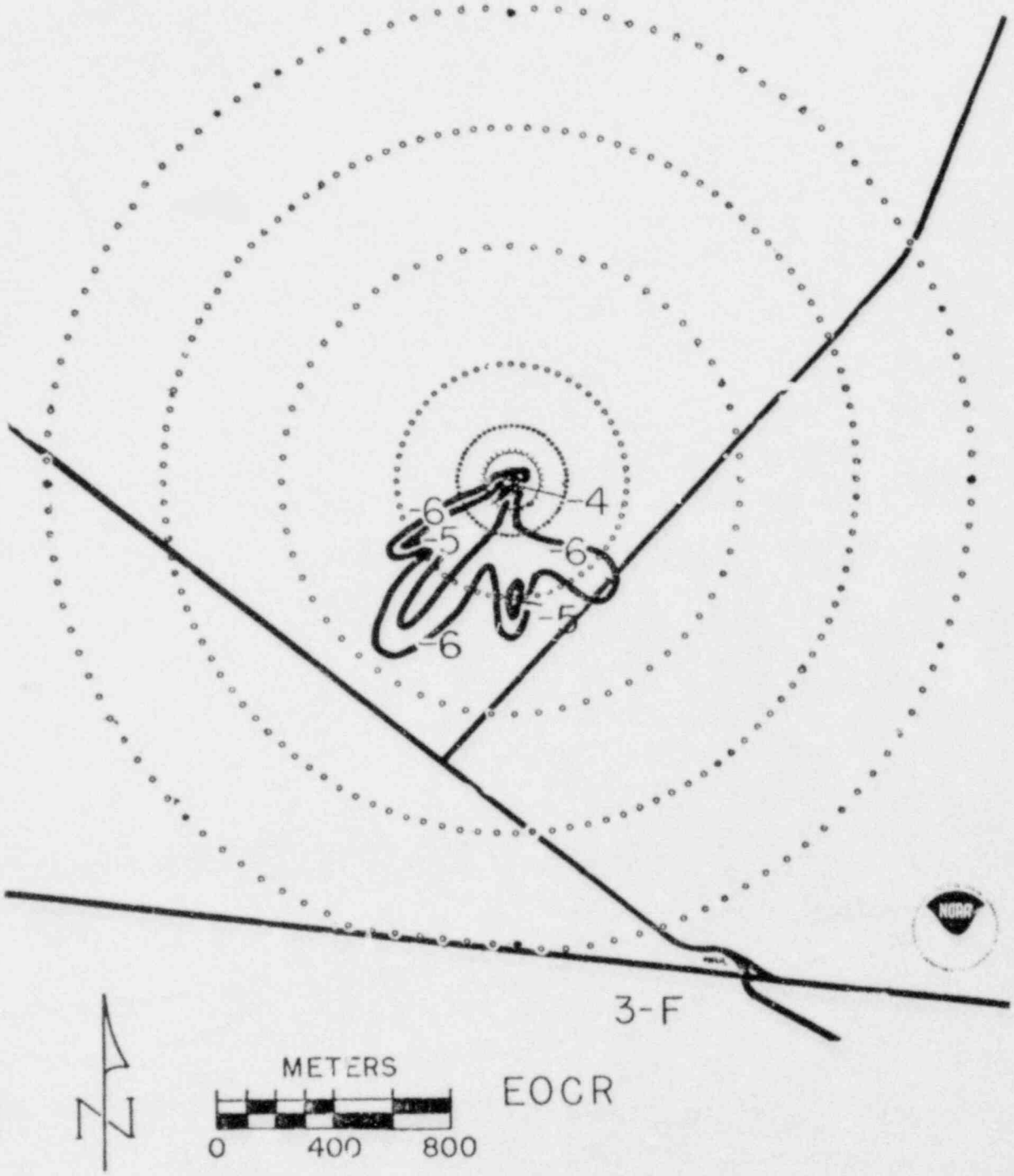
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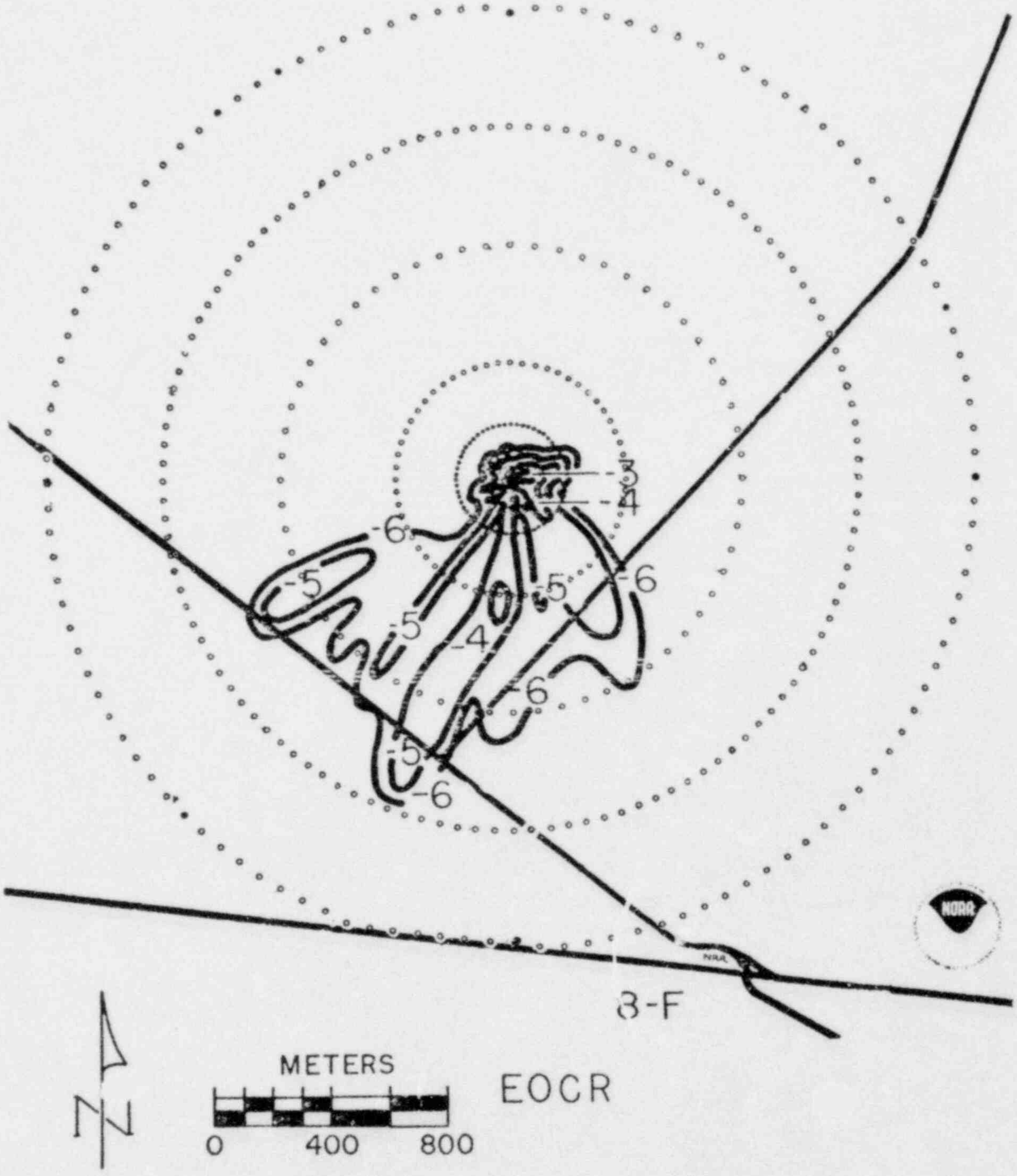
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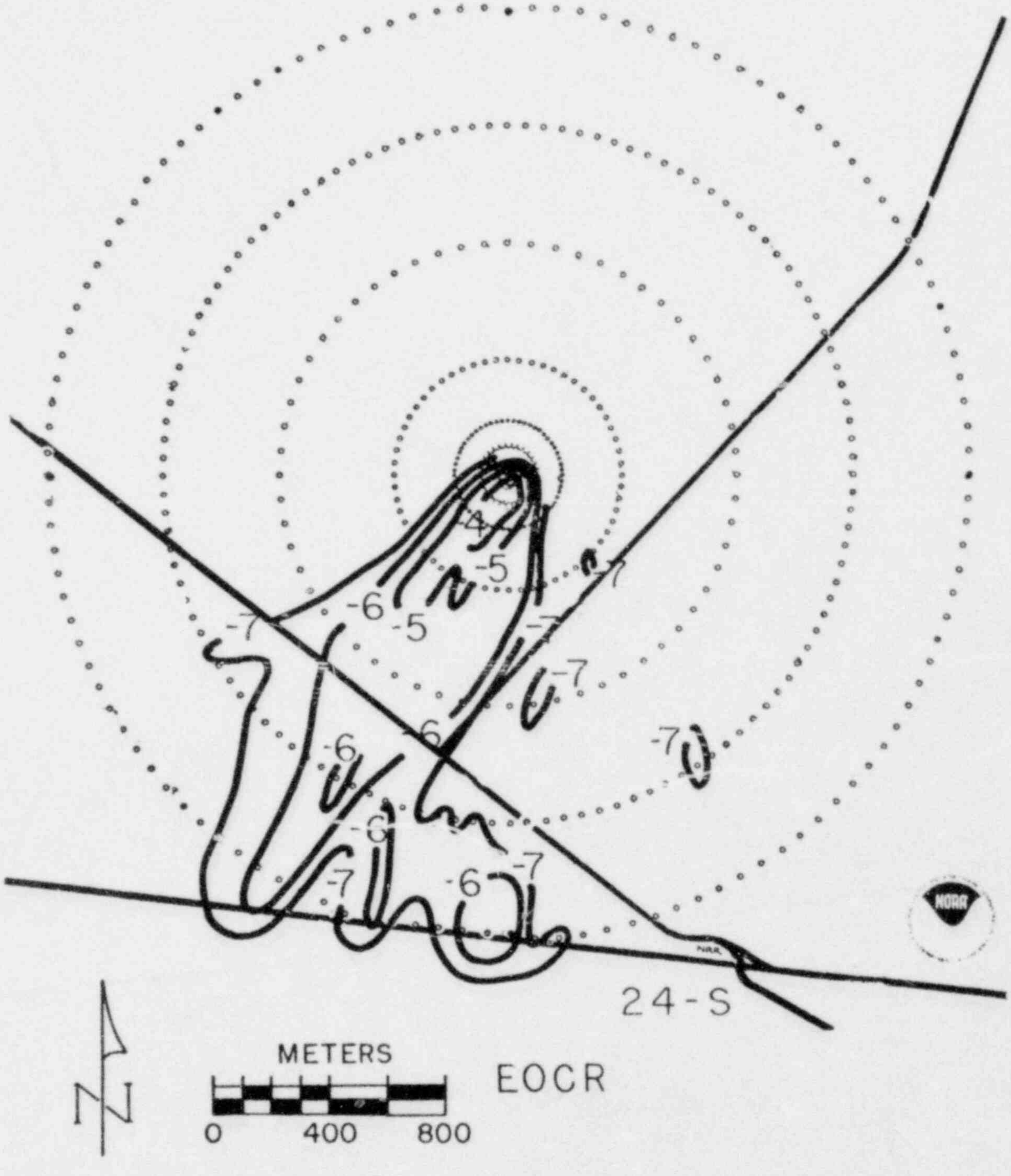
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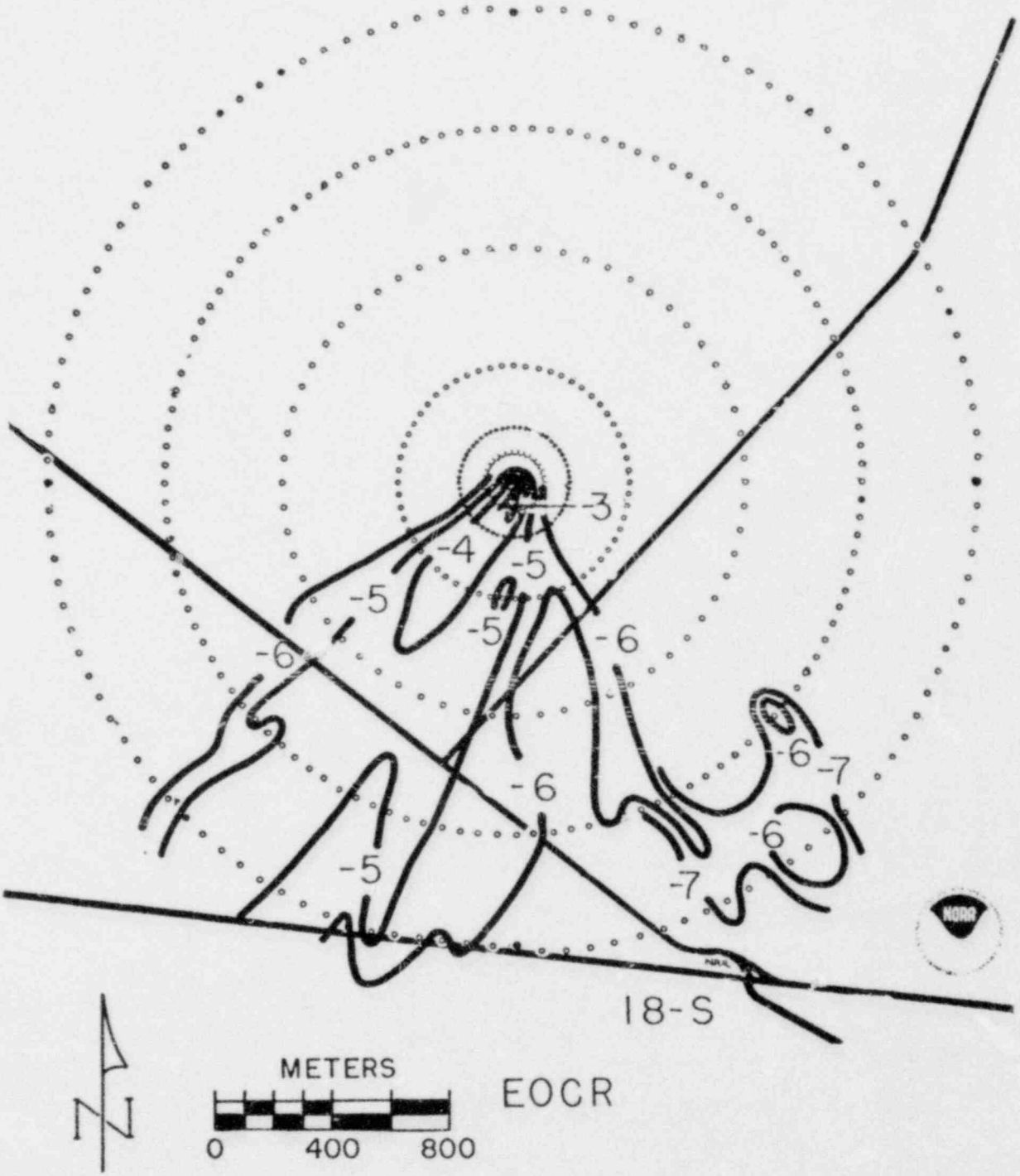
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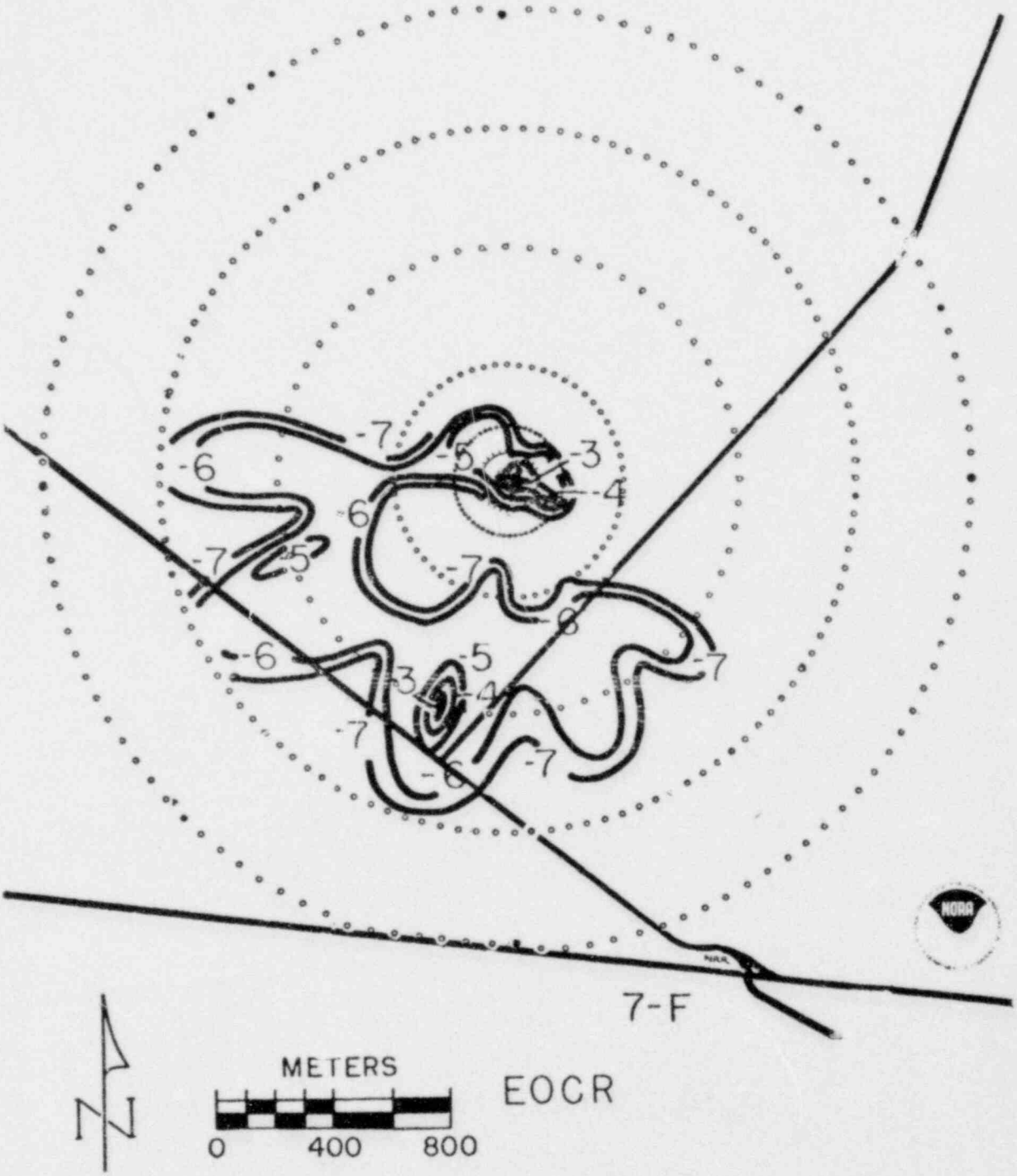
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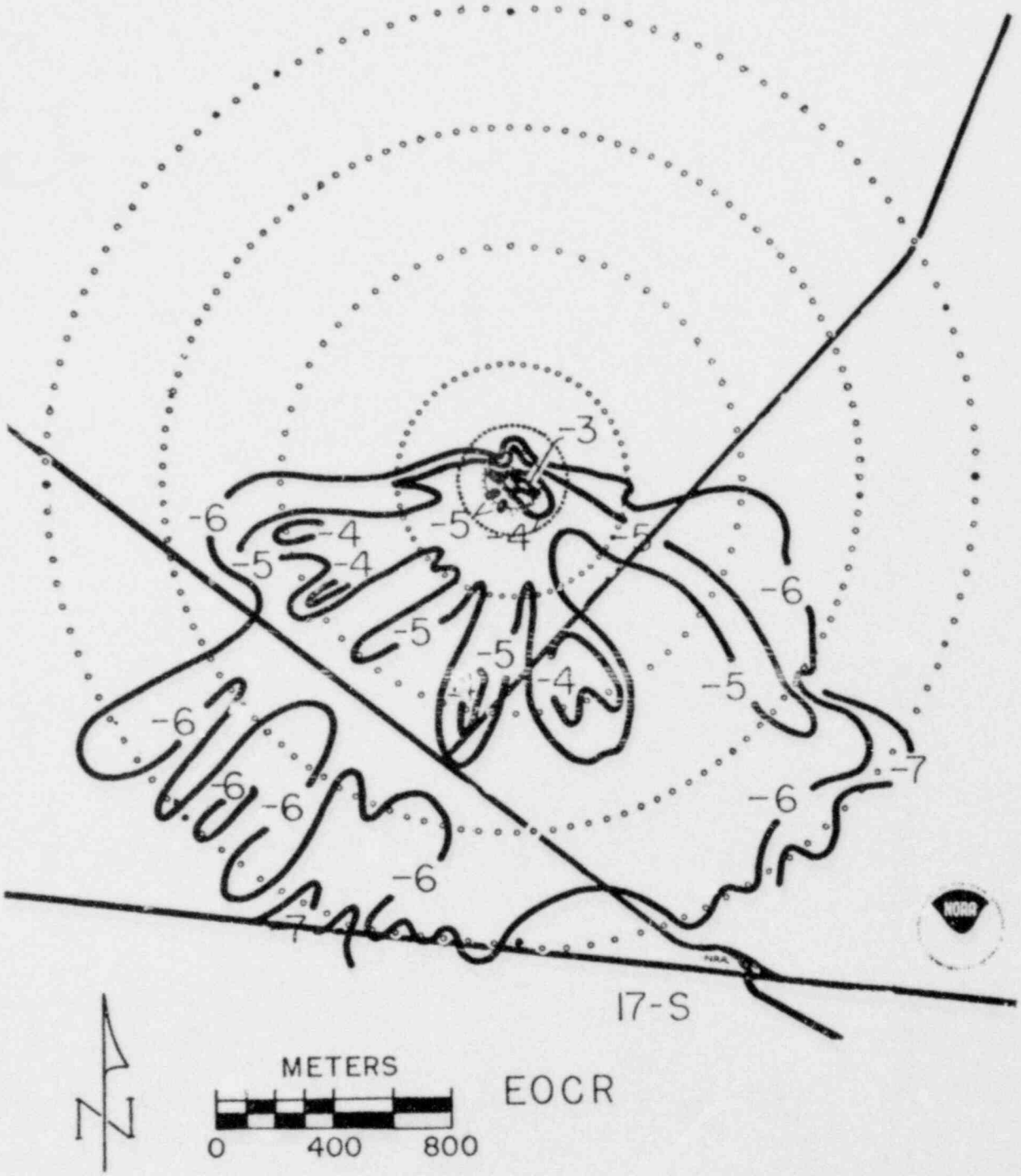
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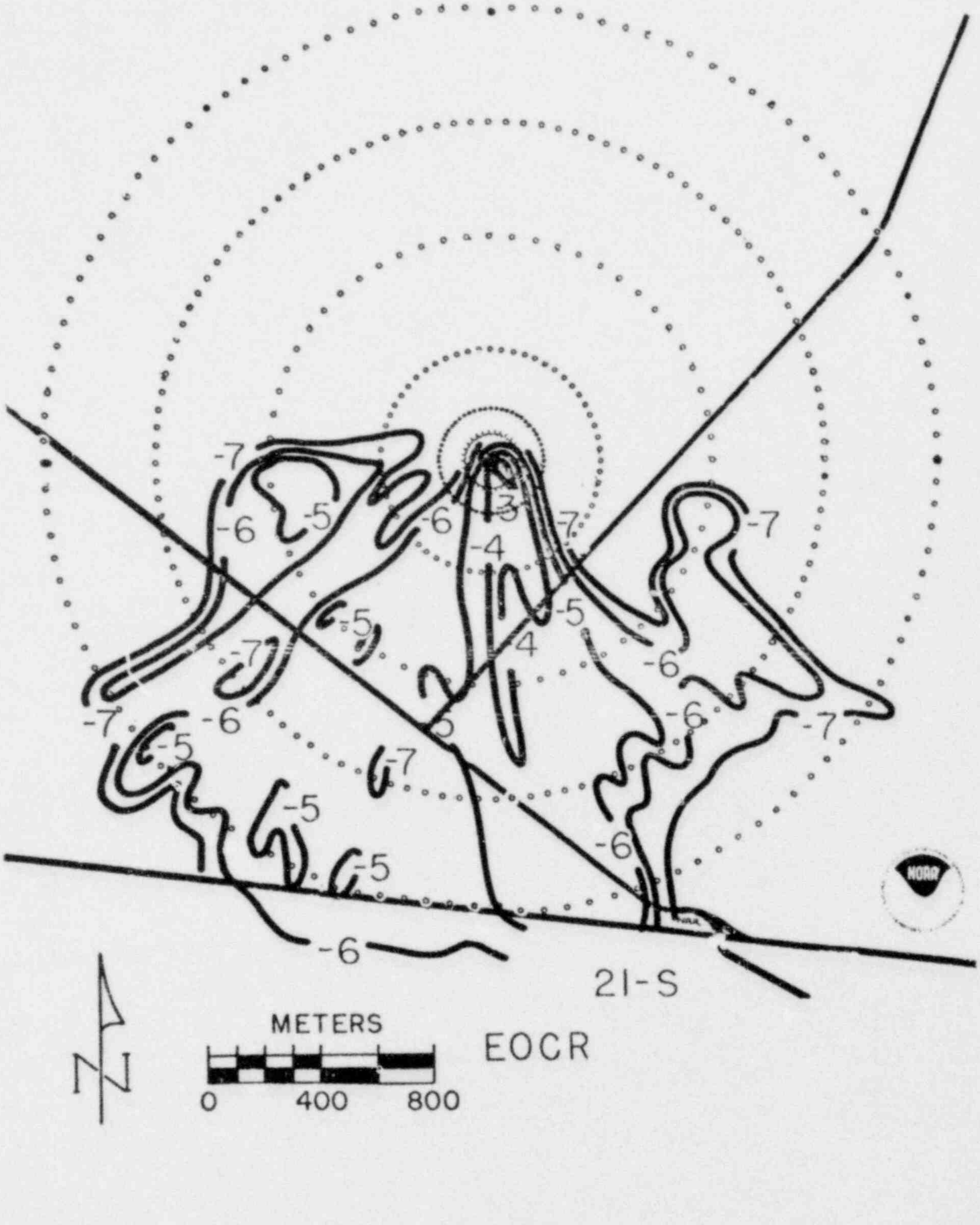
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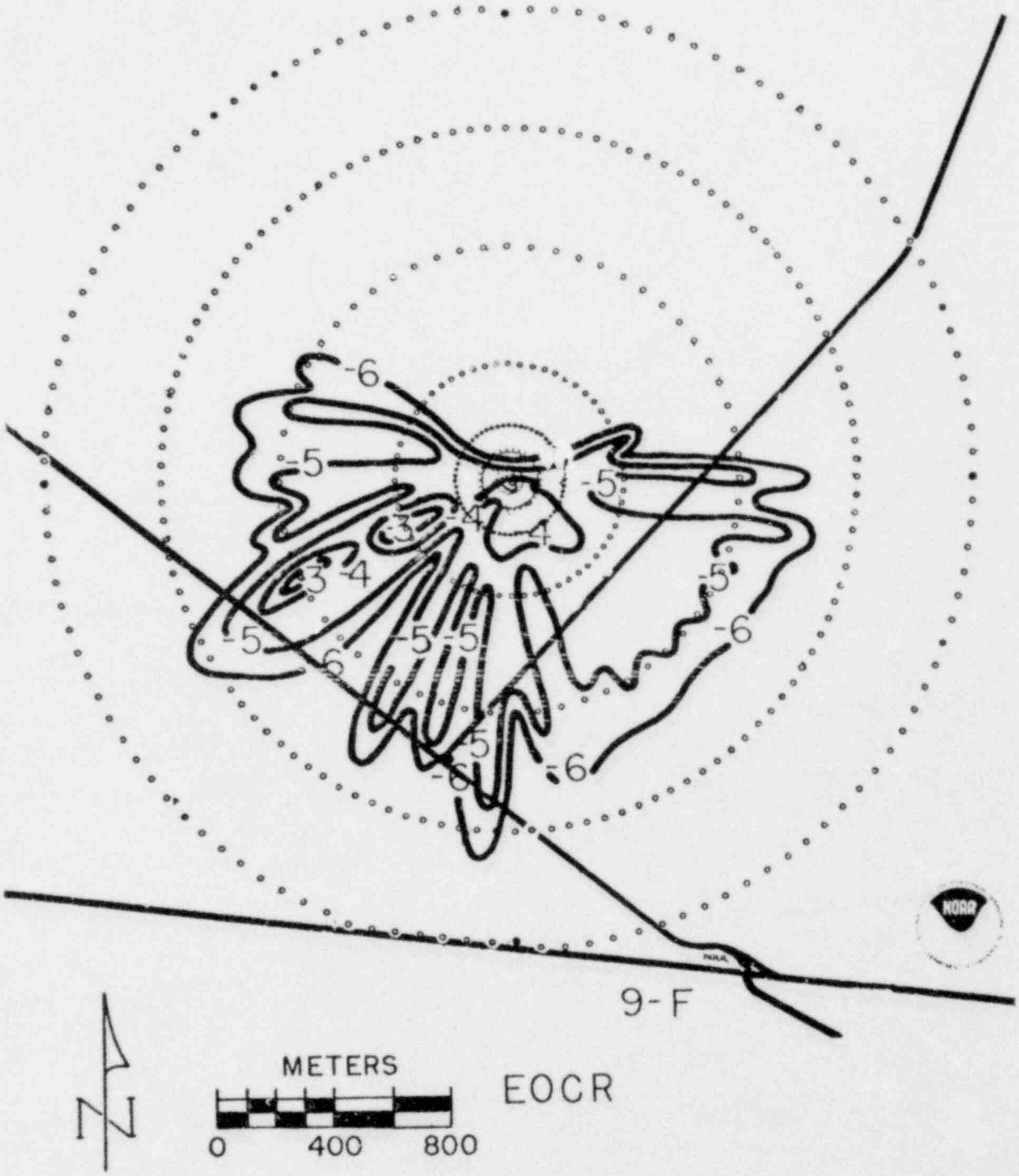
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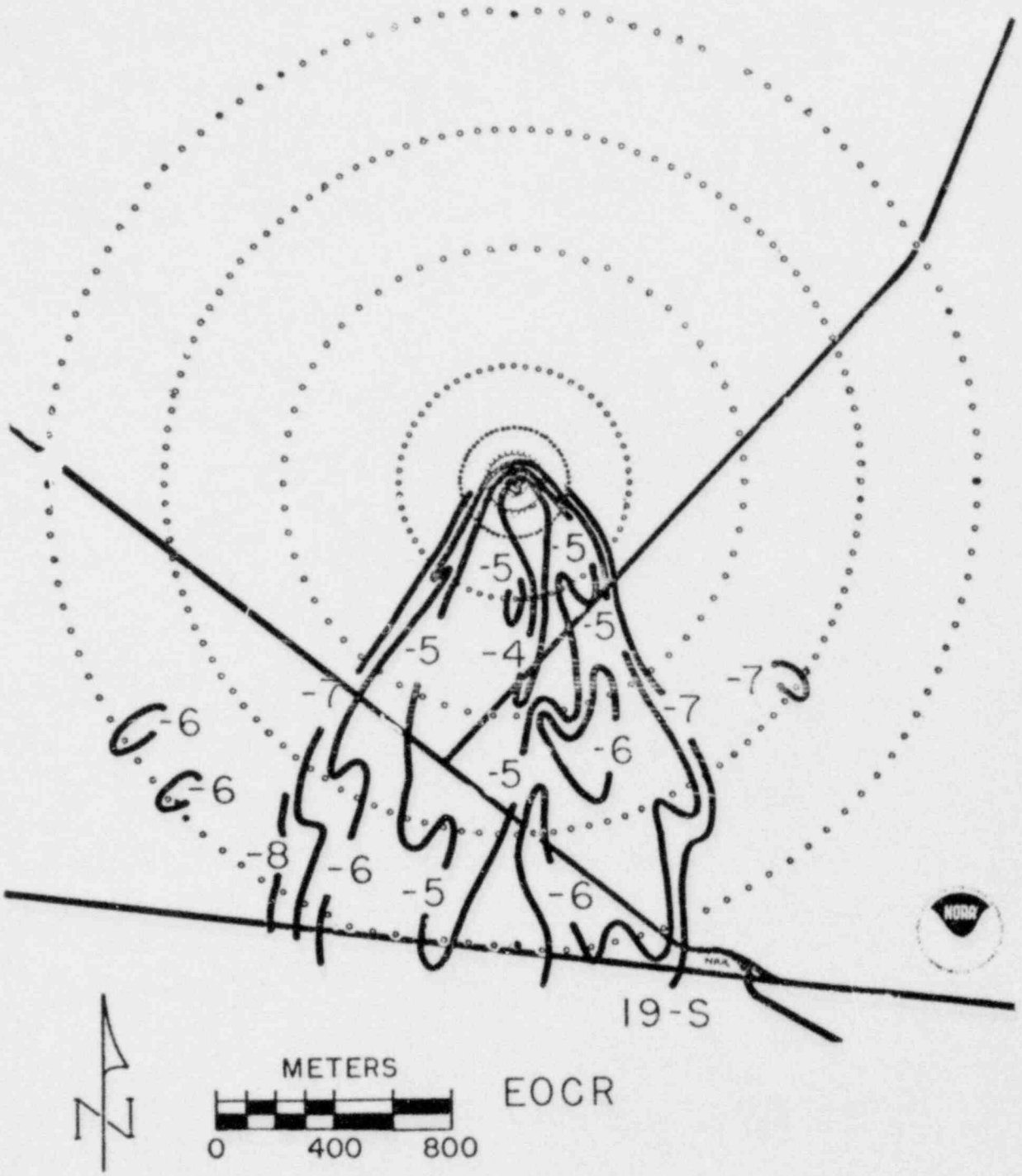
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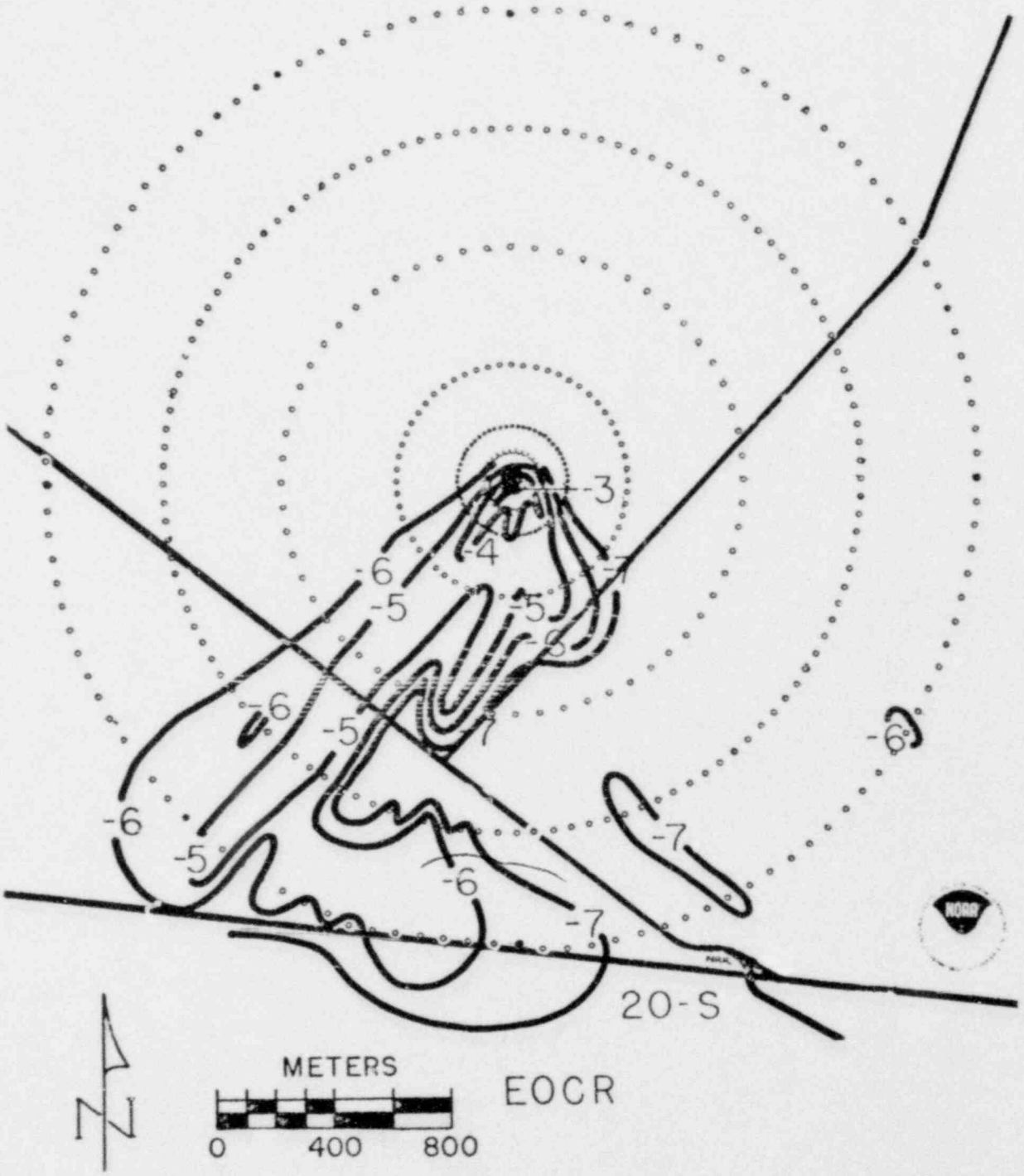
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METERS
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400
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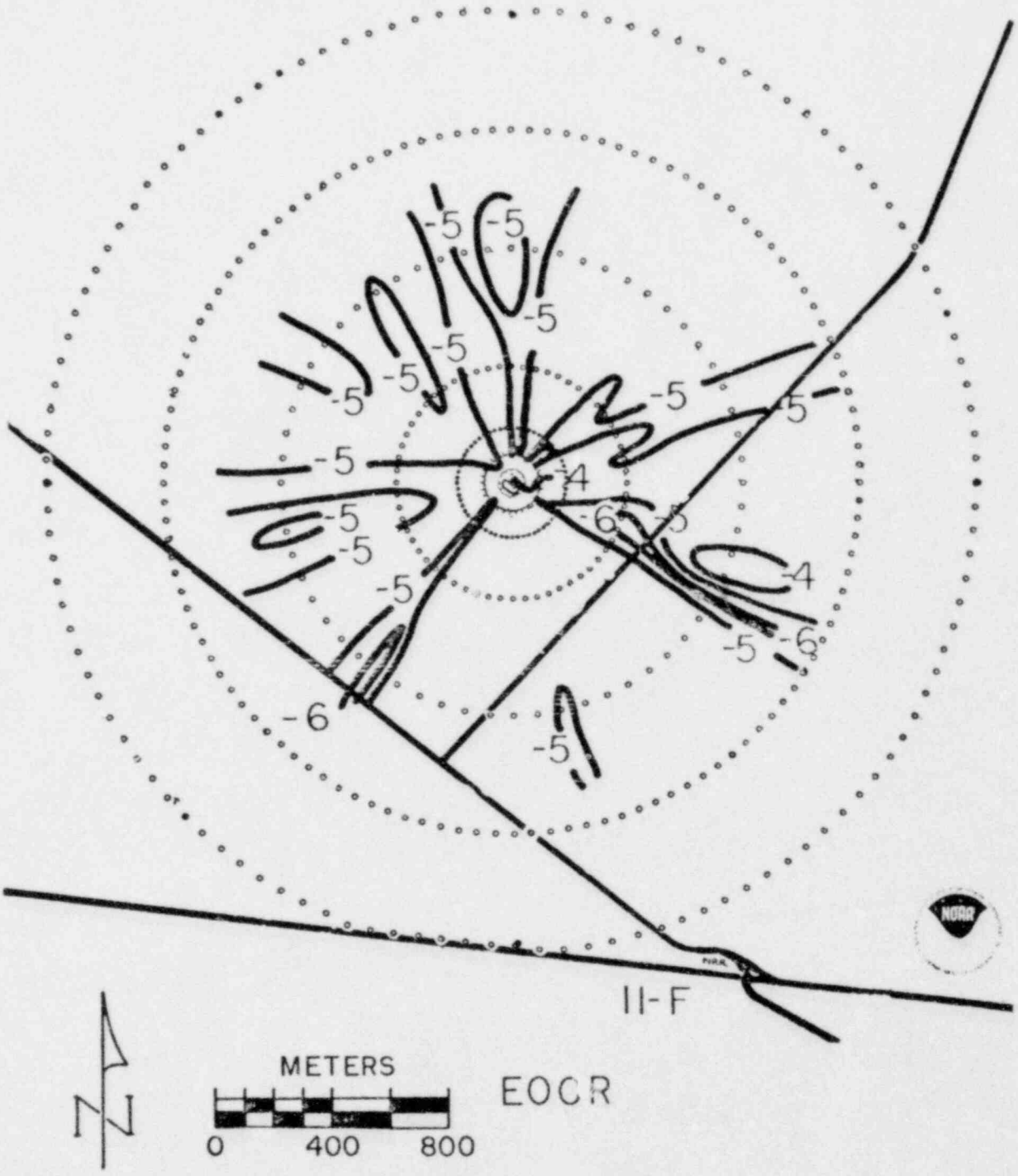
APPENDIX F: Roof Release Concentration Isopleths for Each Test.

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	2	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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II-F
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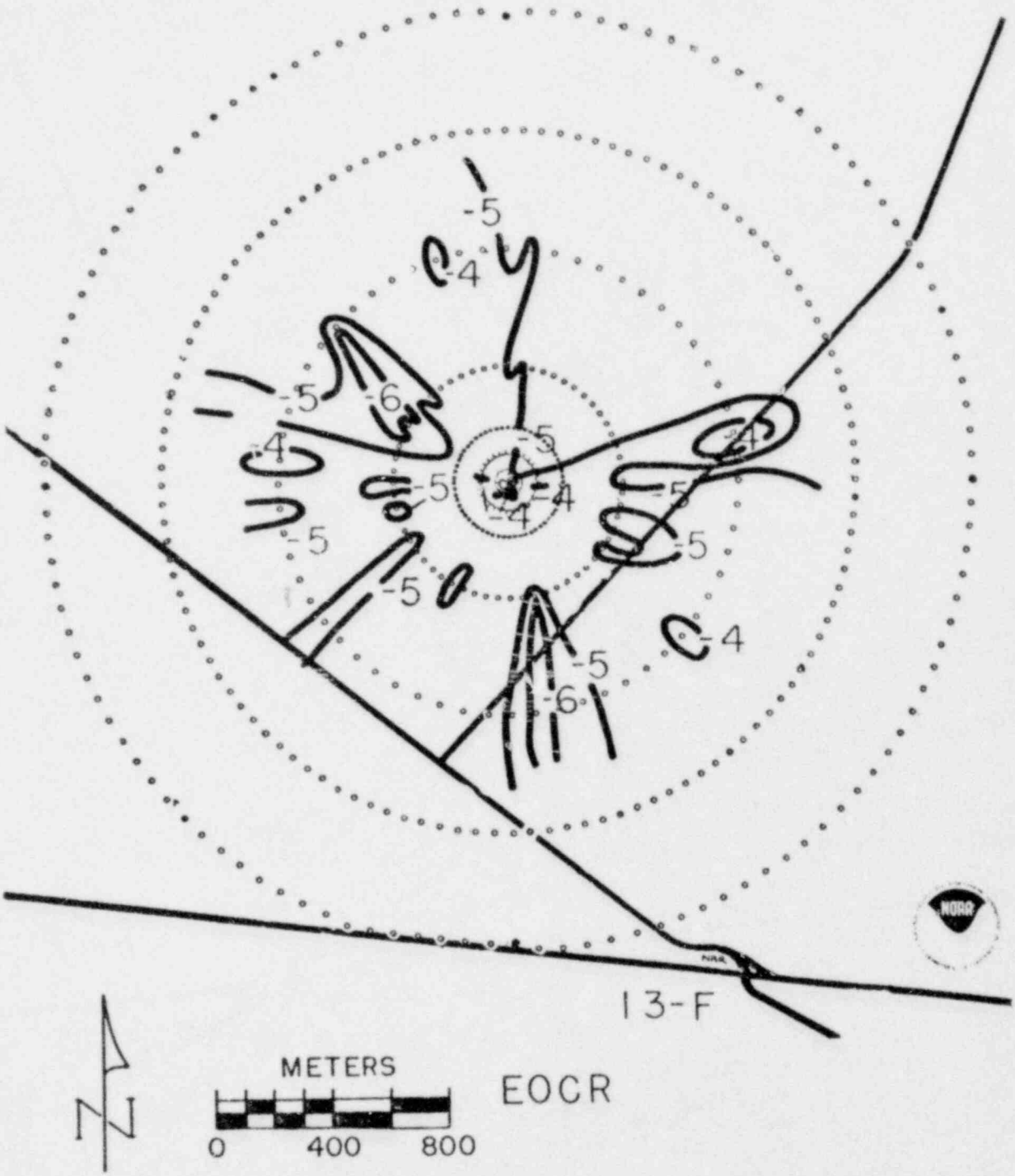
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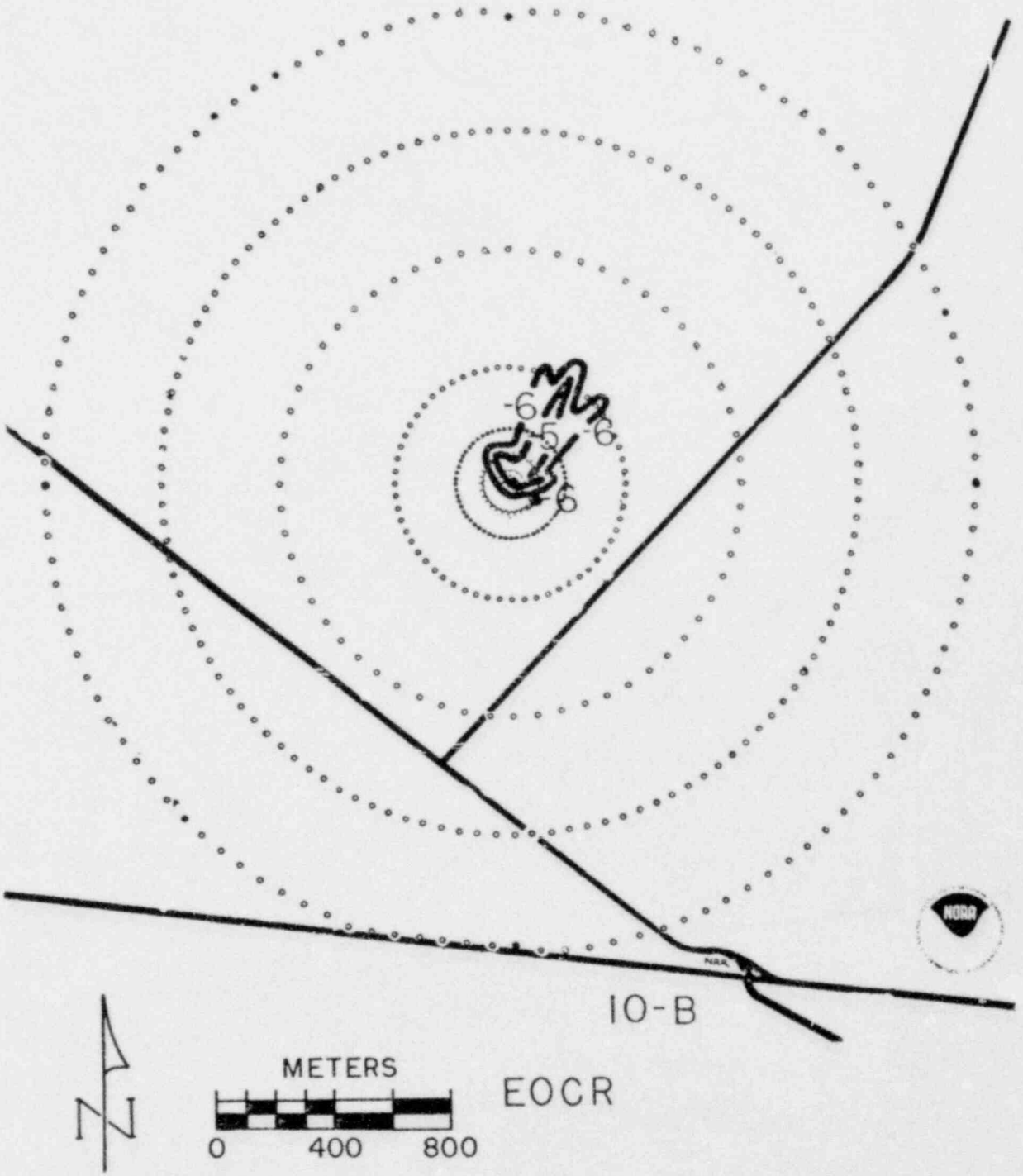
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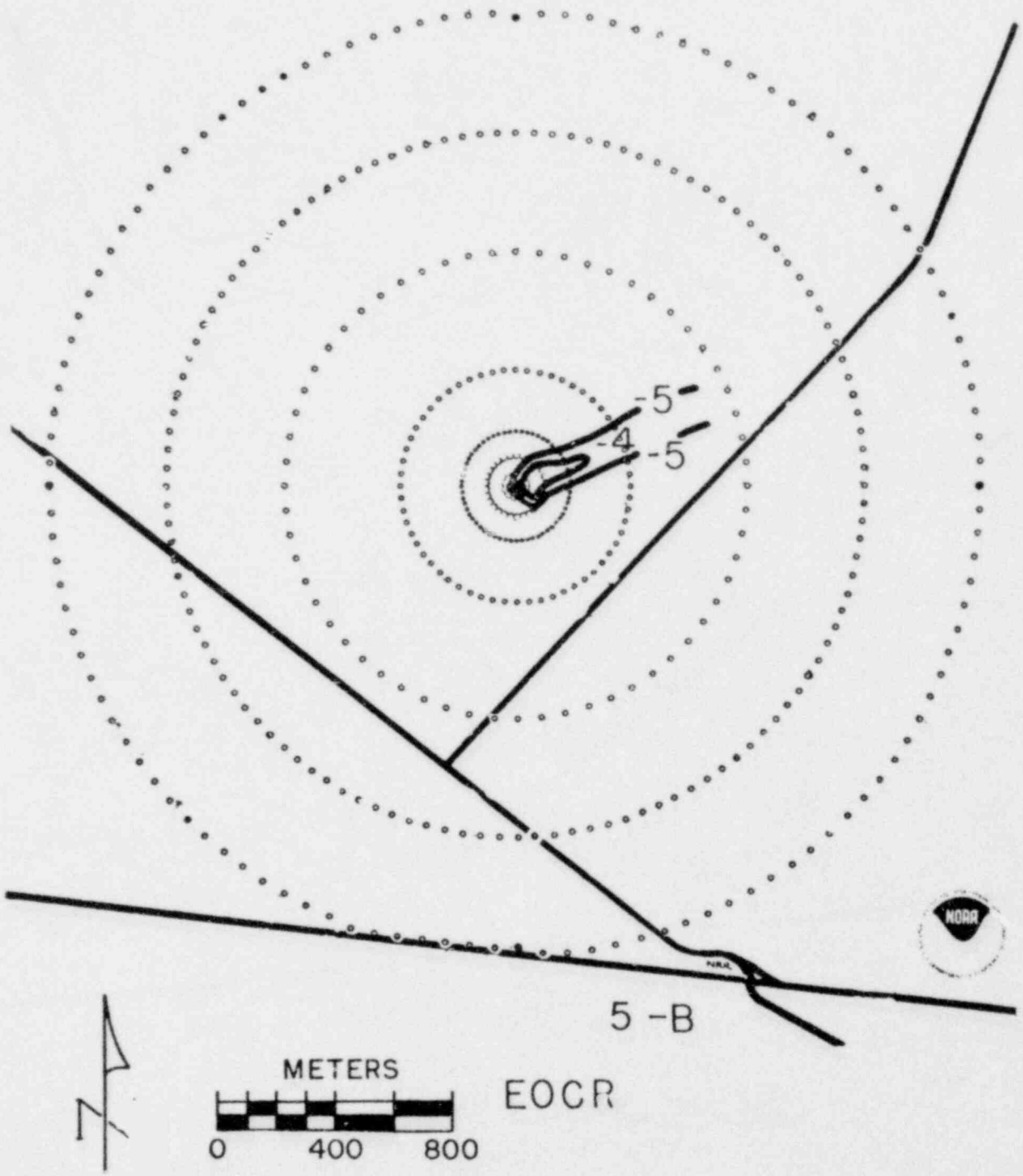
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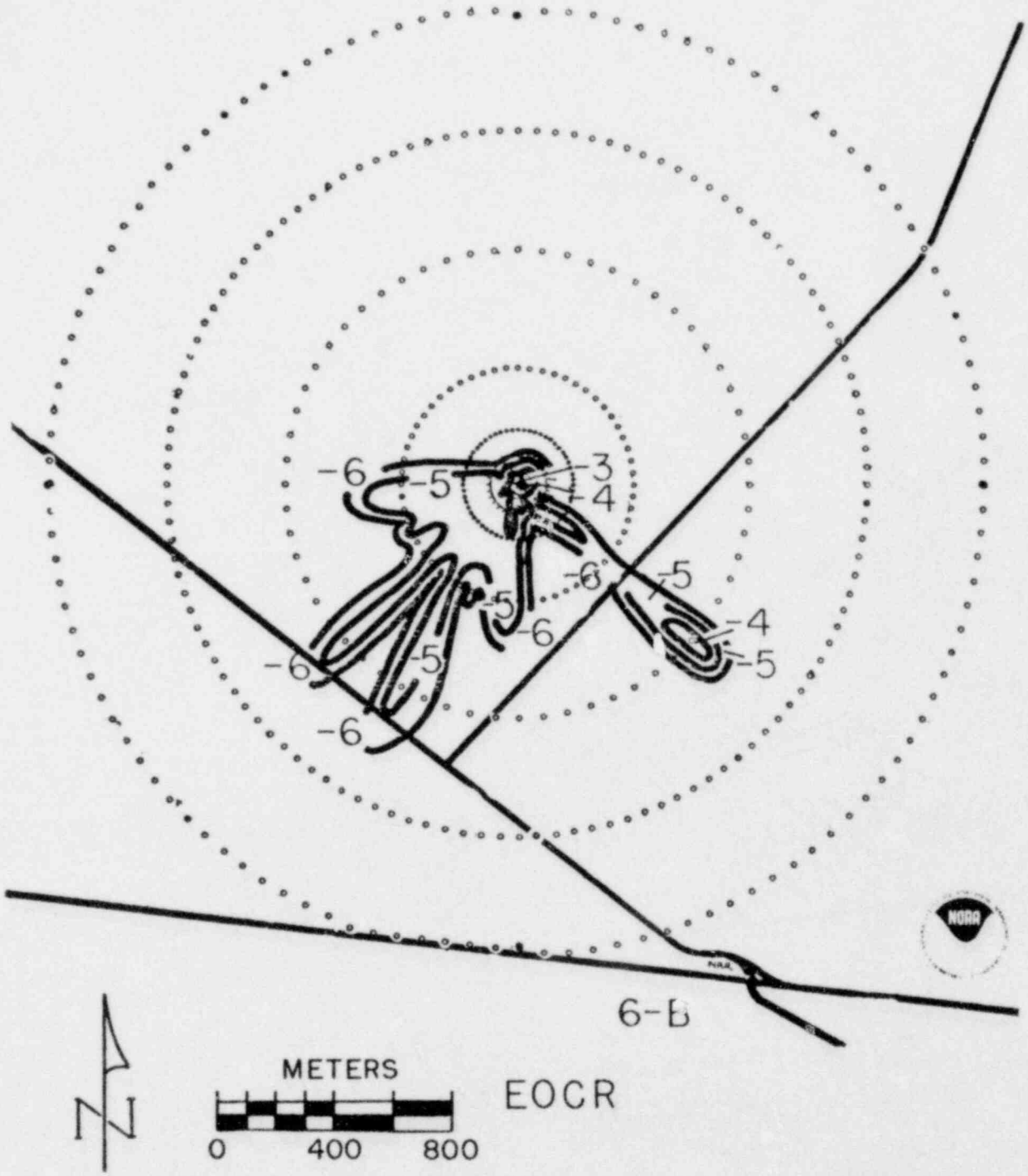
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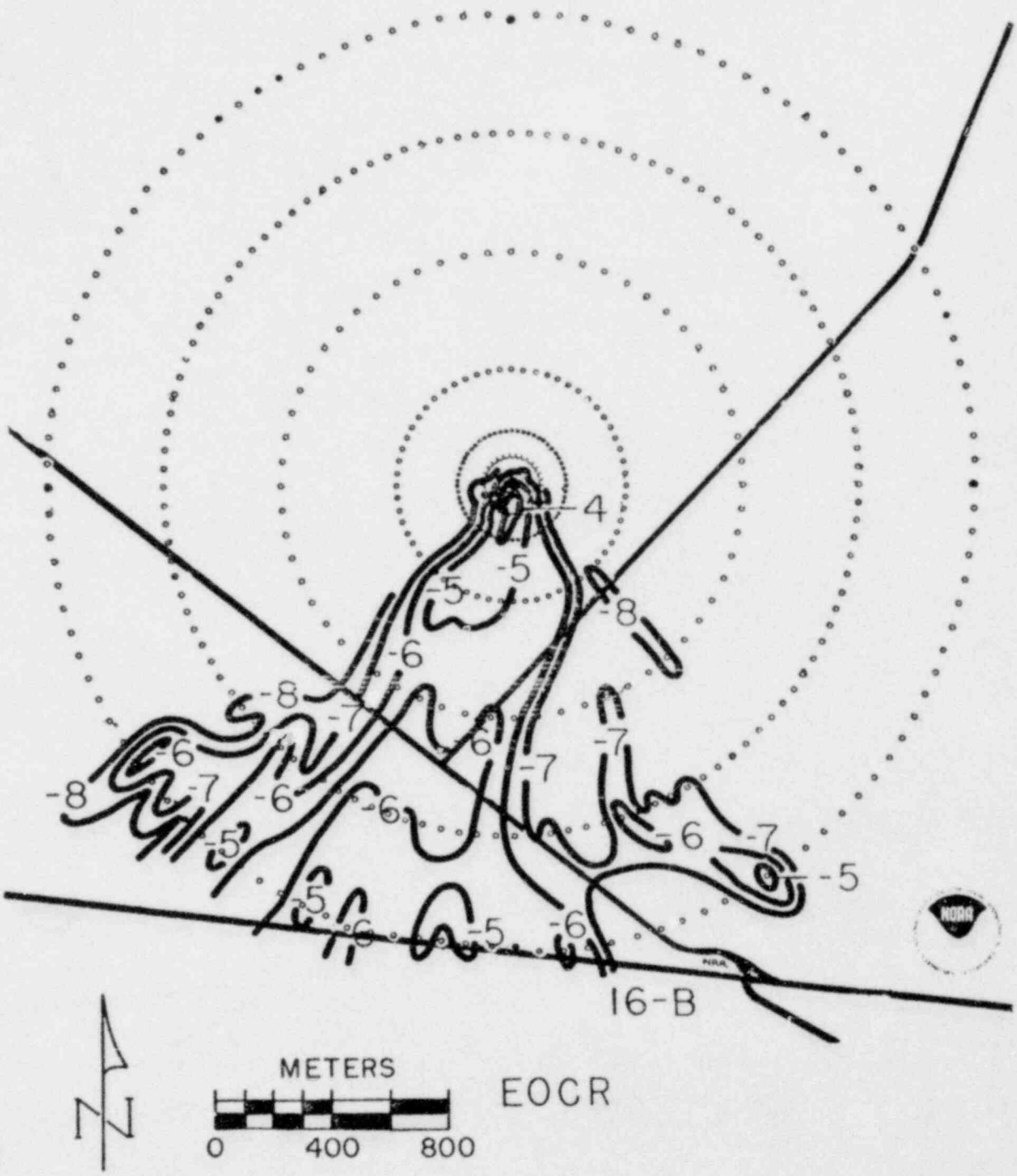
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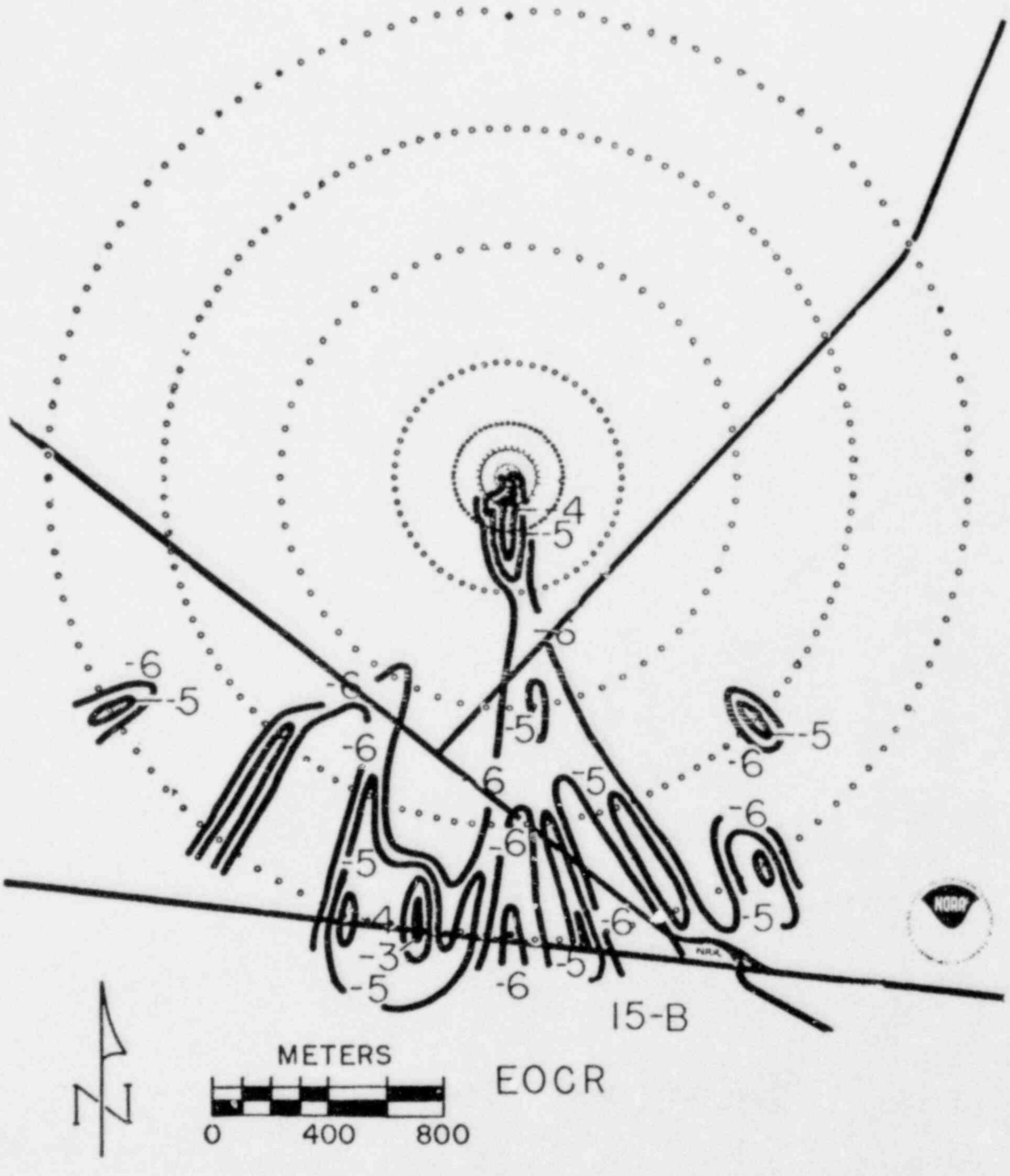
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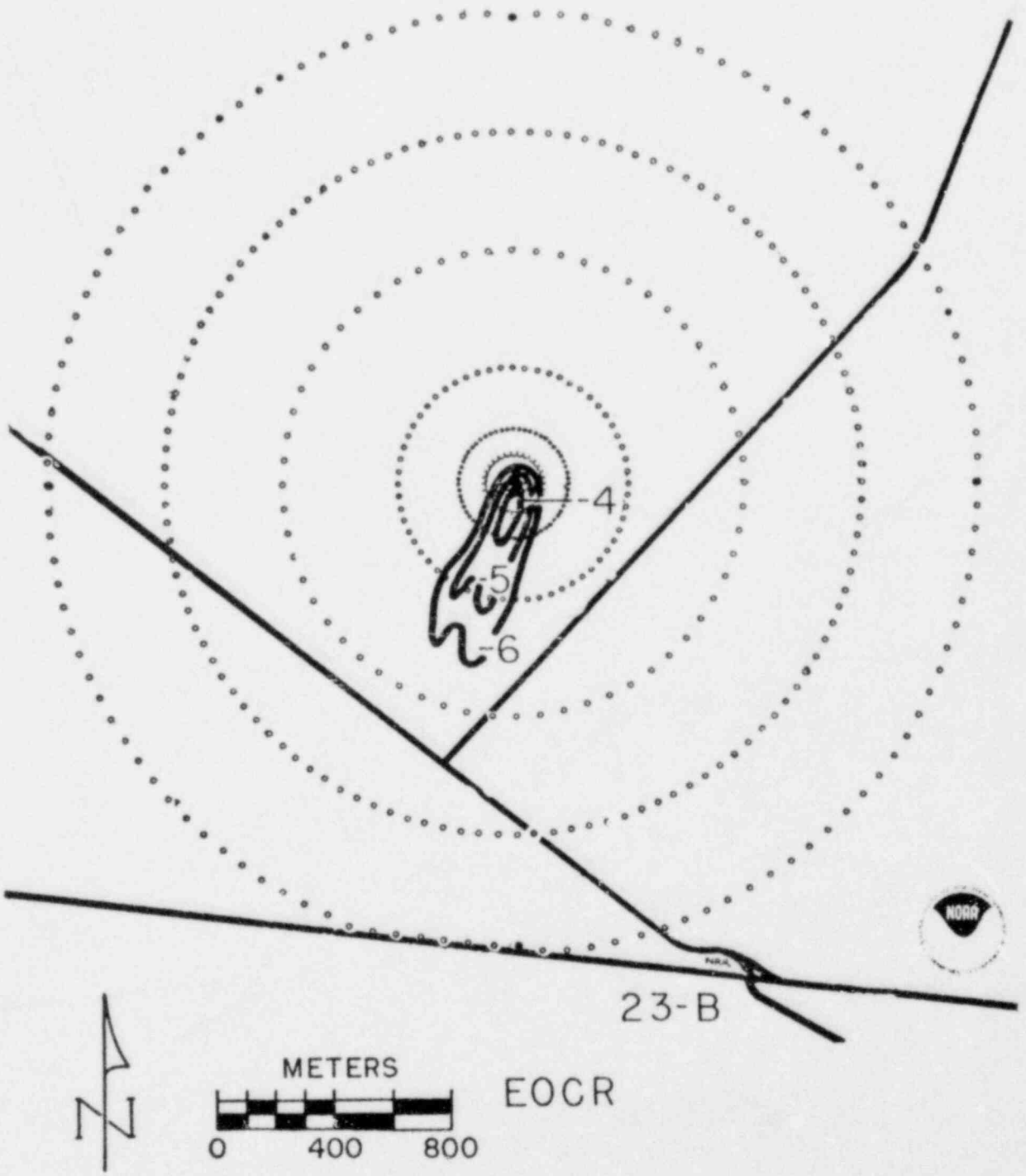
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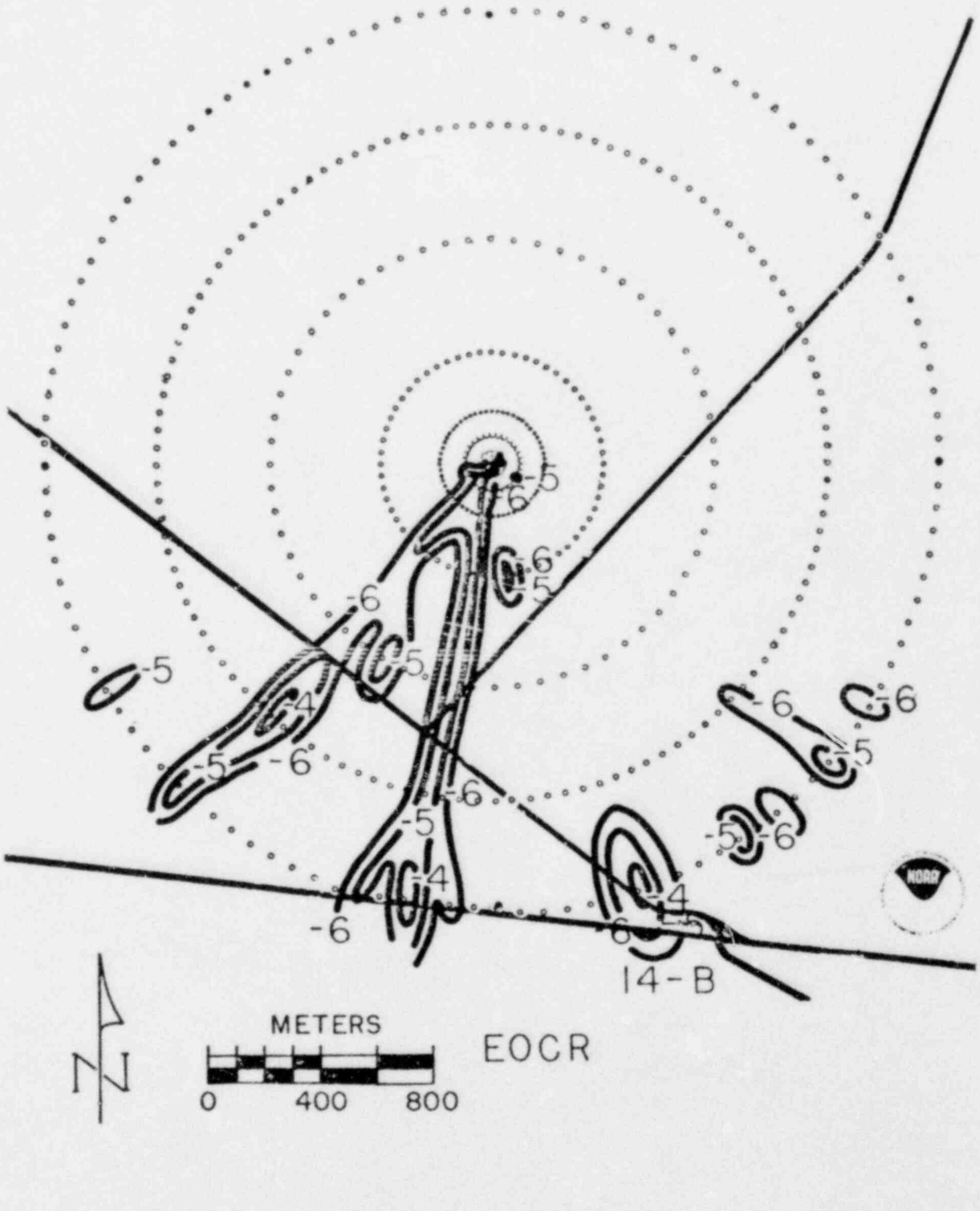

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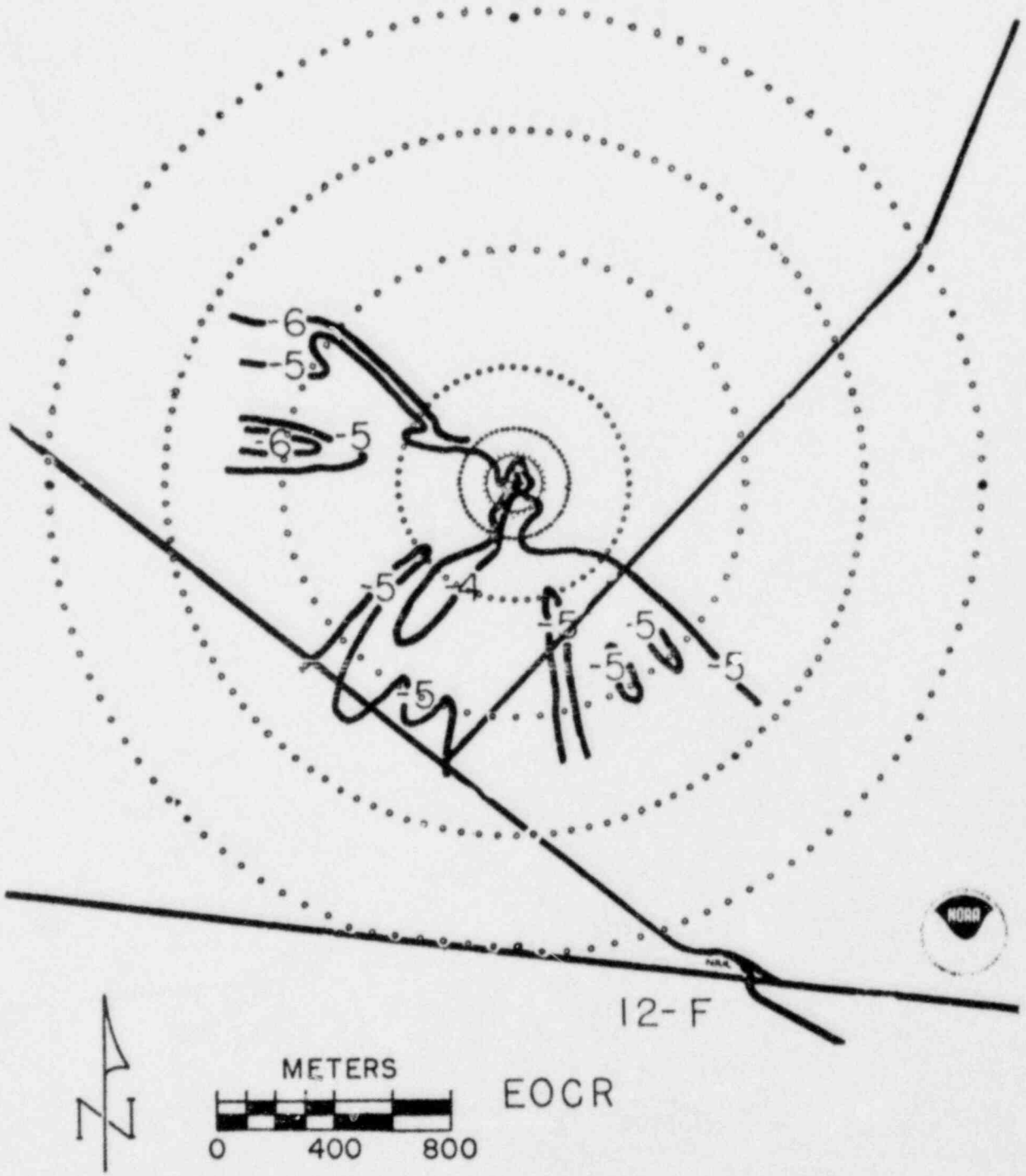
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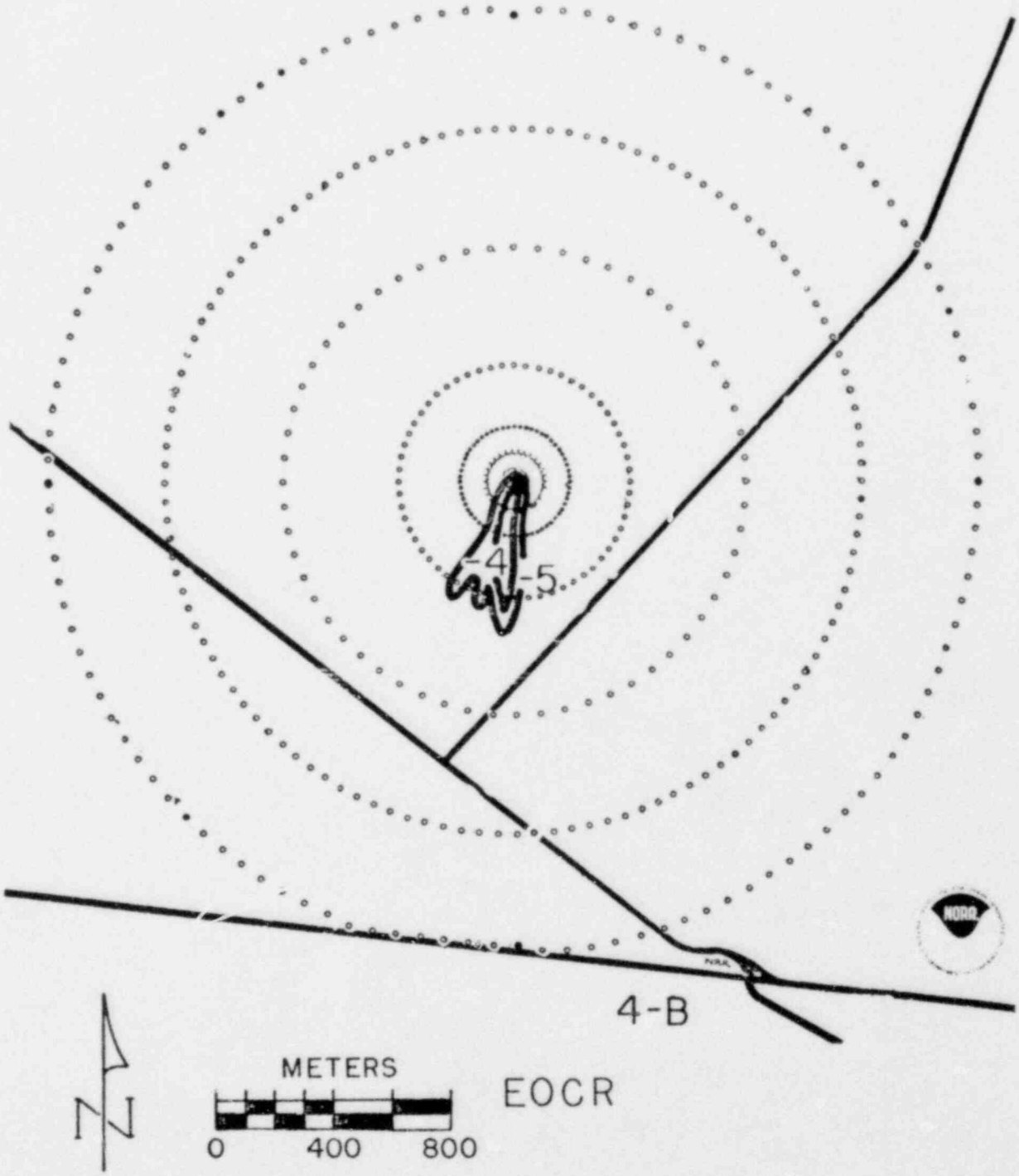
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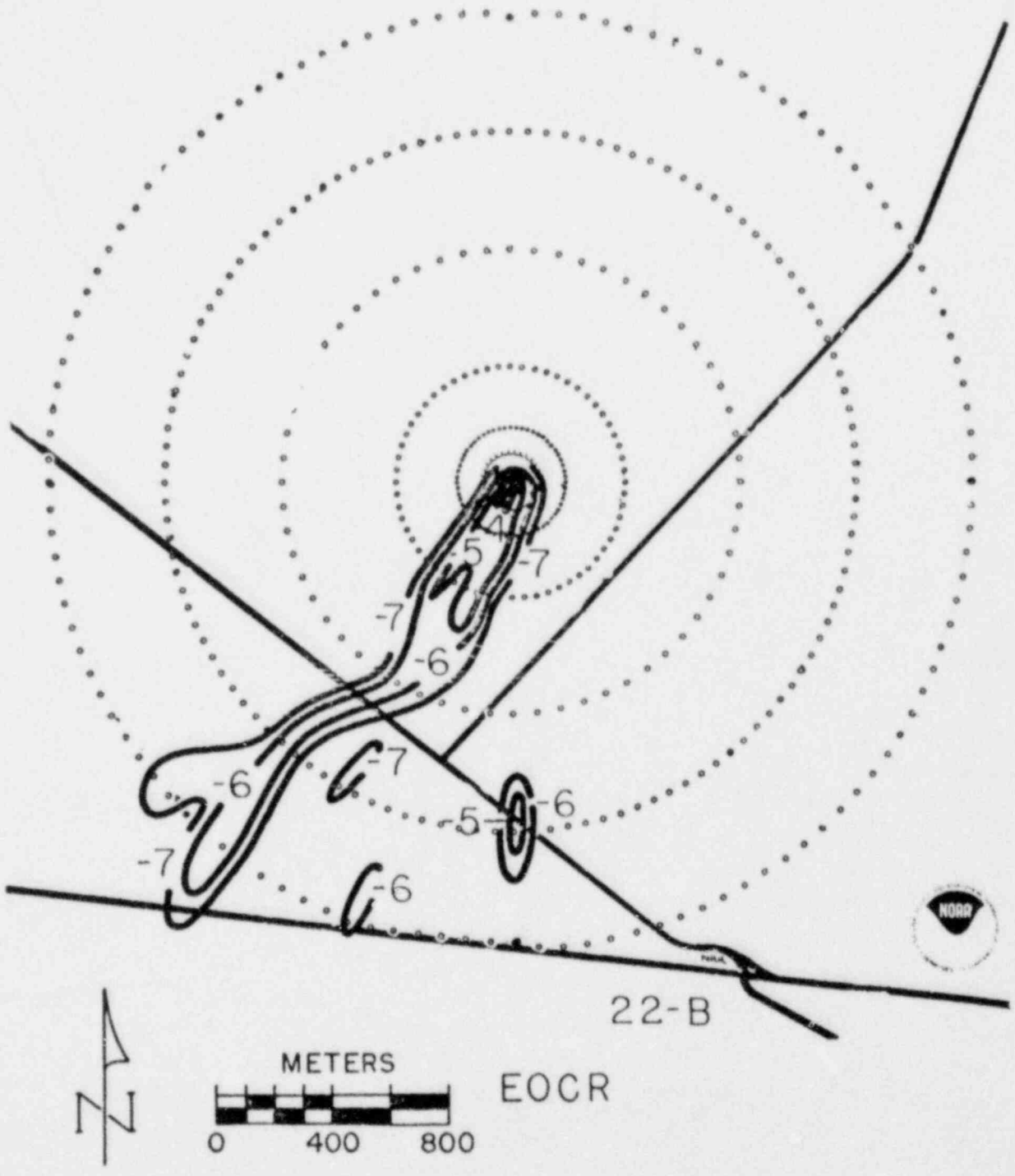
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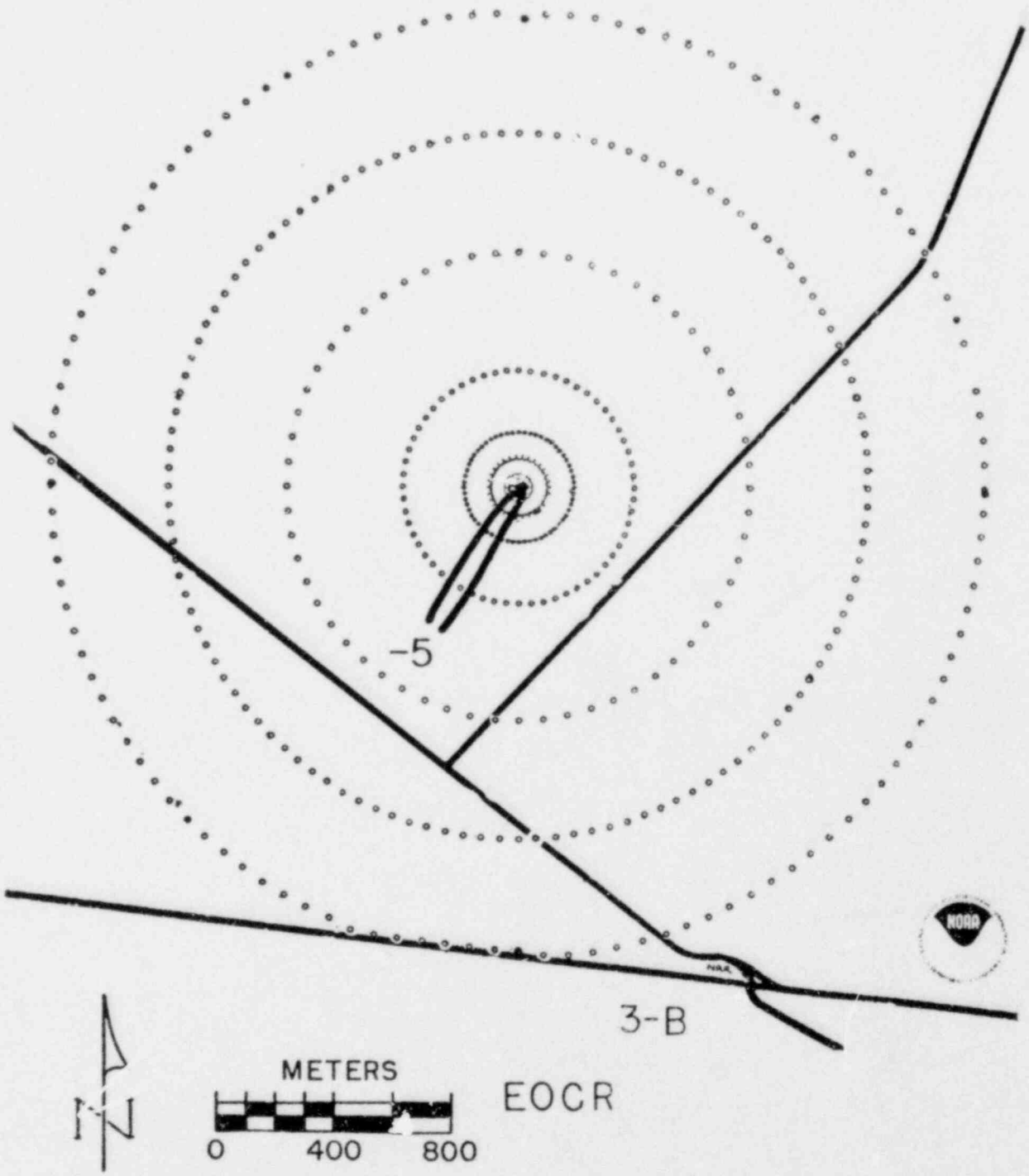
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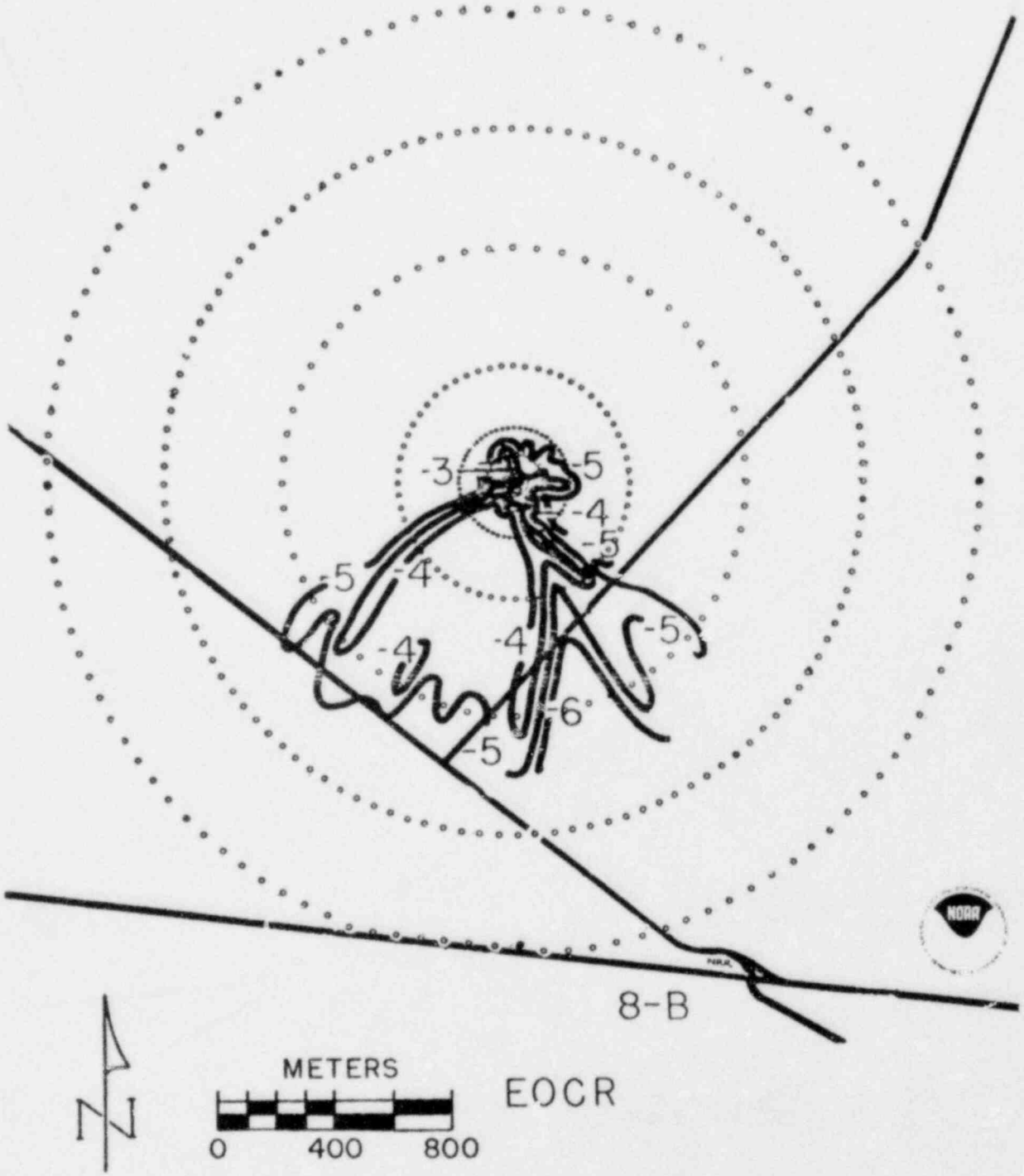
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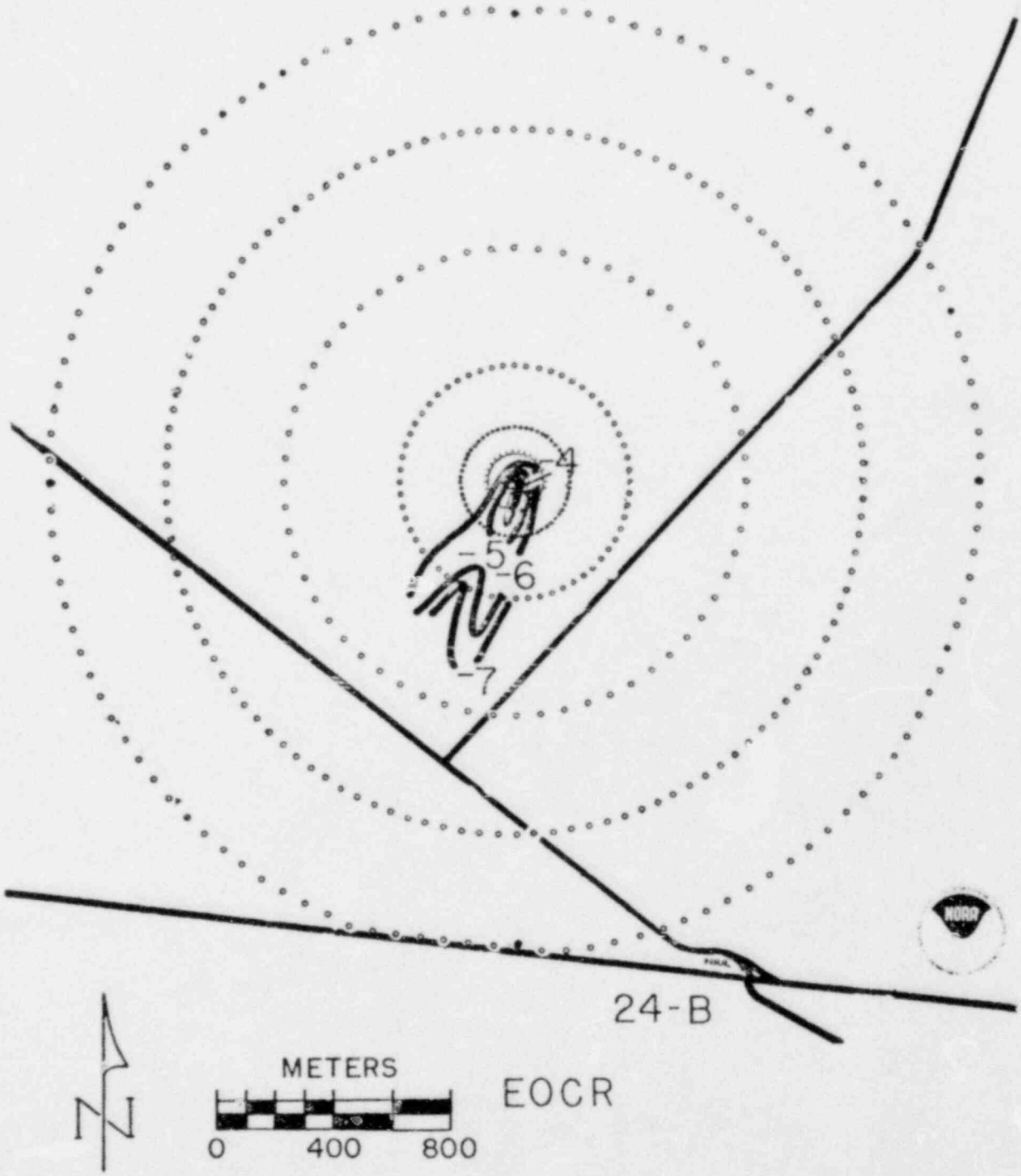
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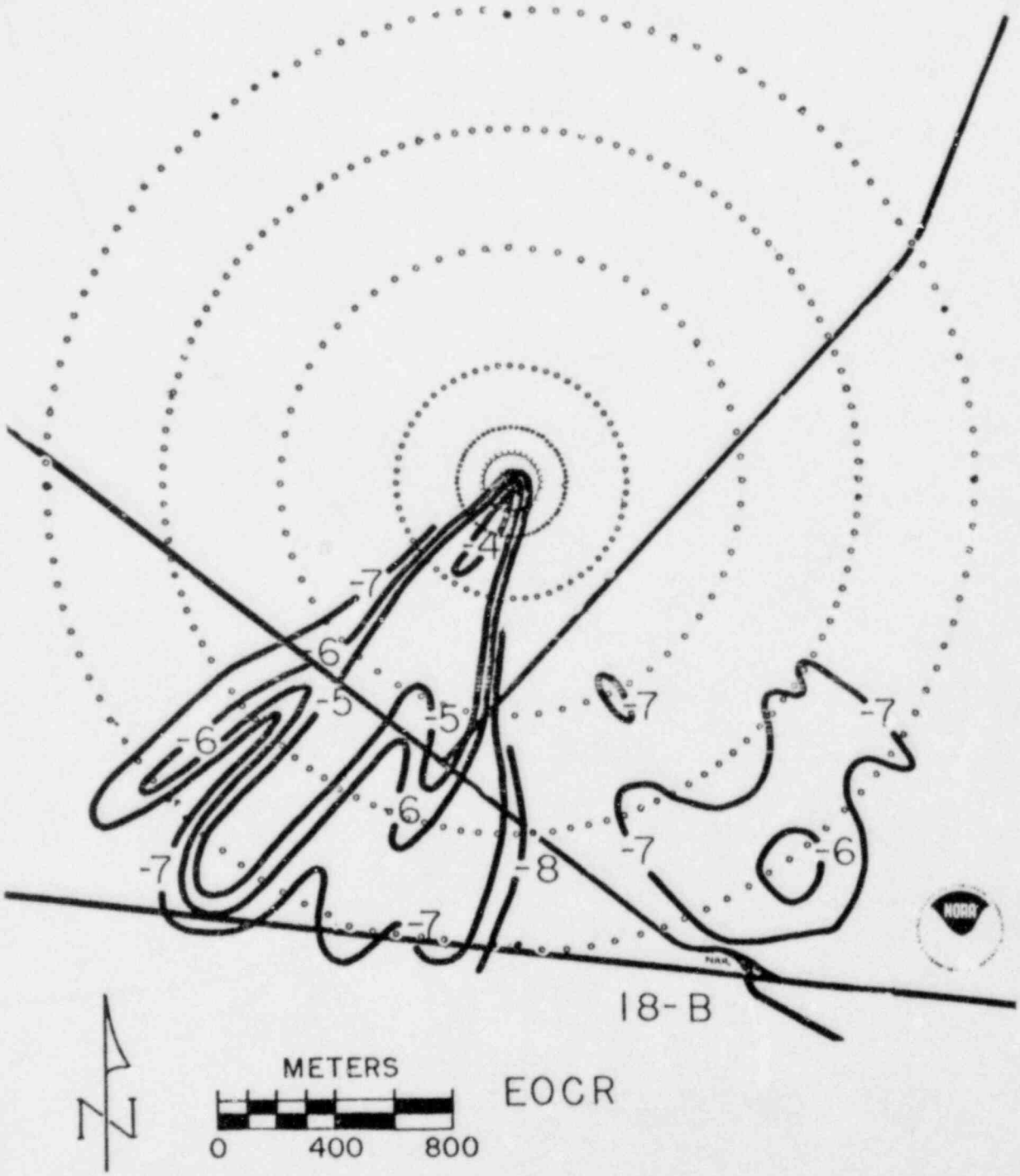
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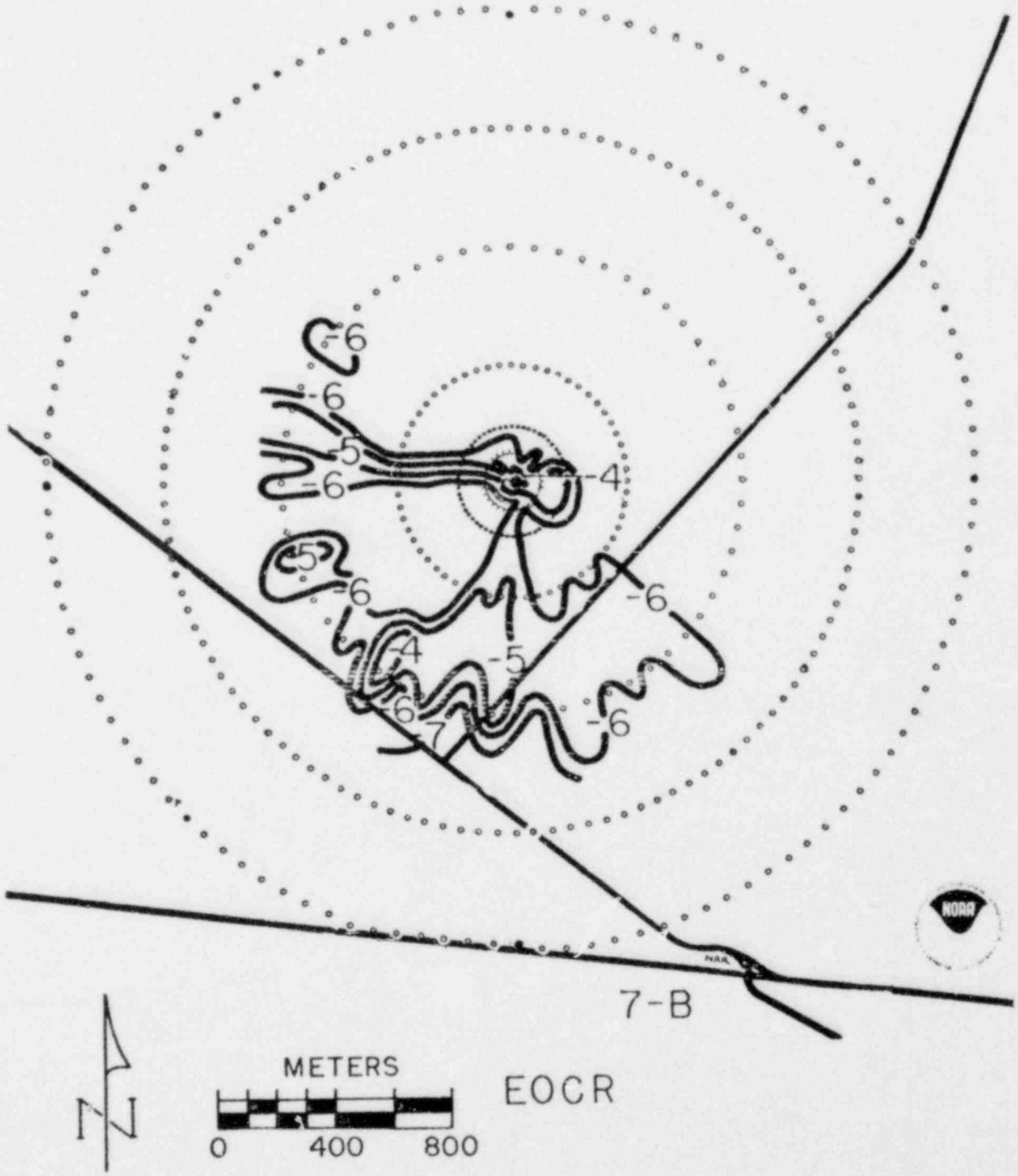
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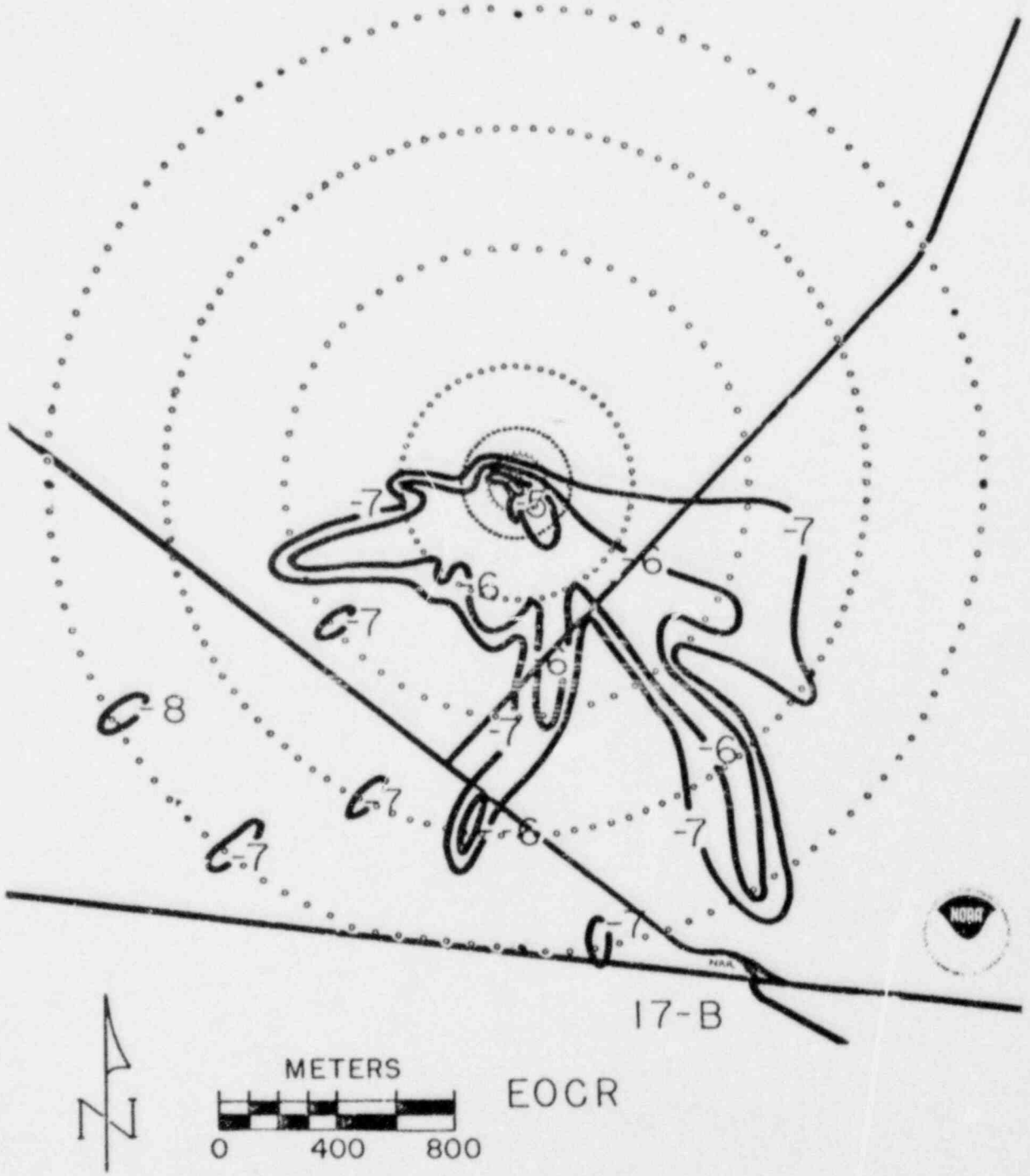
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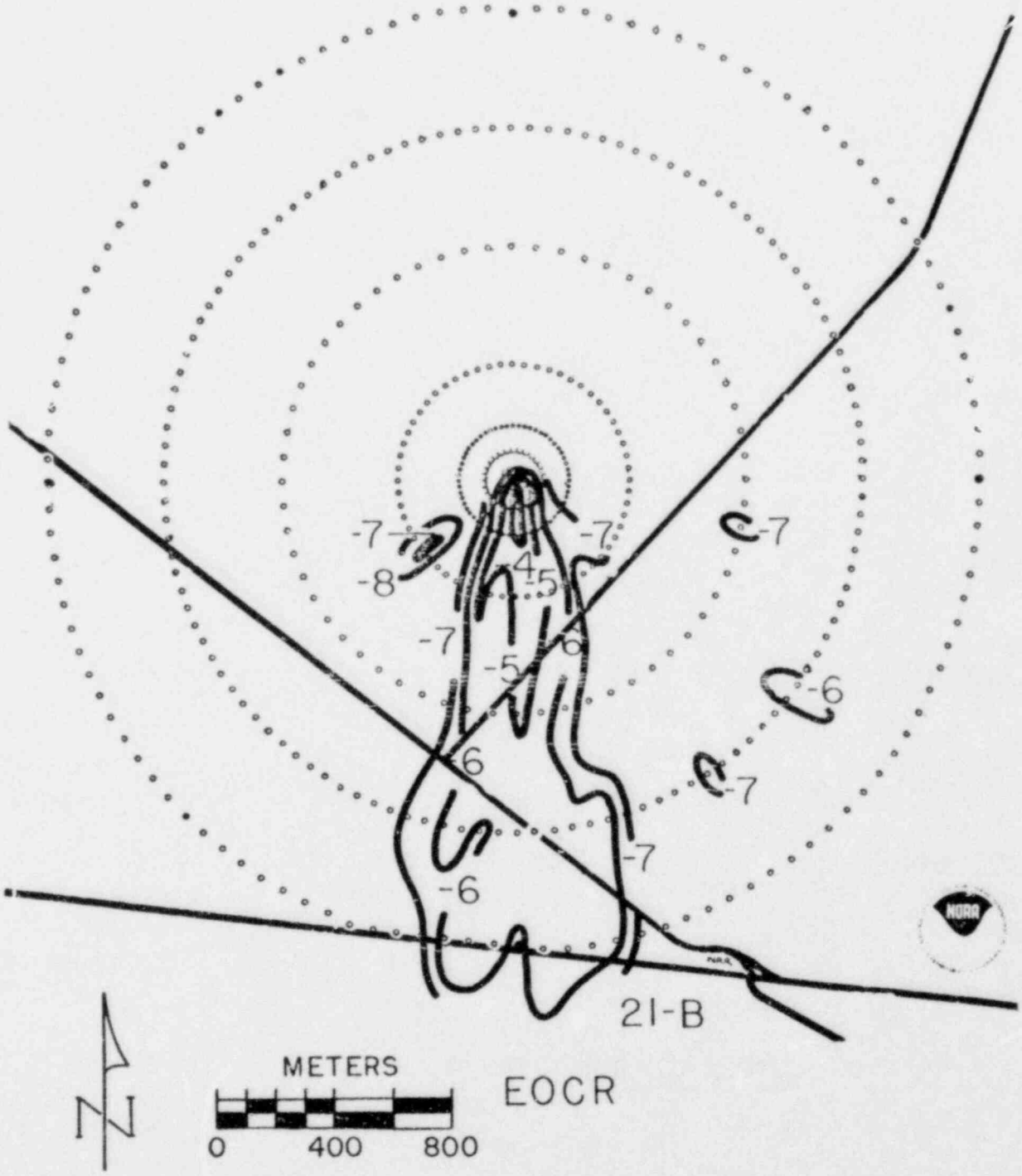
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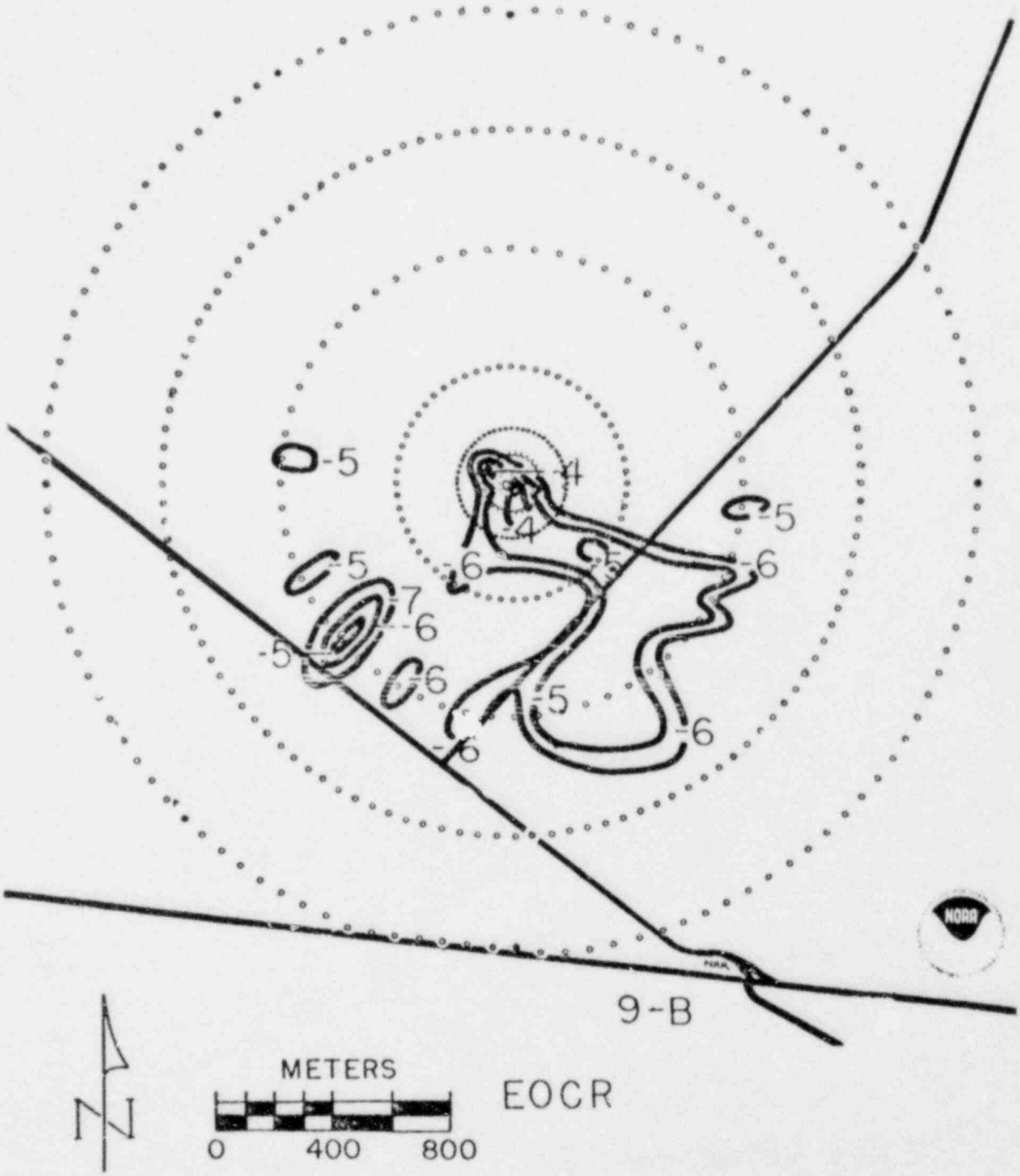
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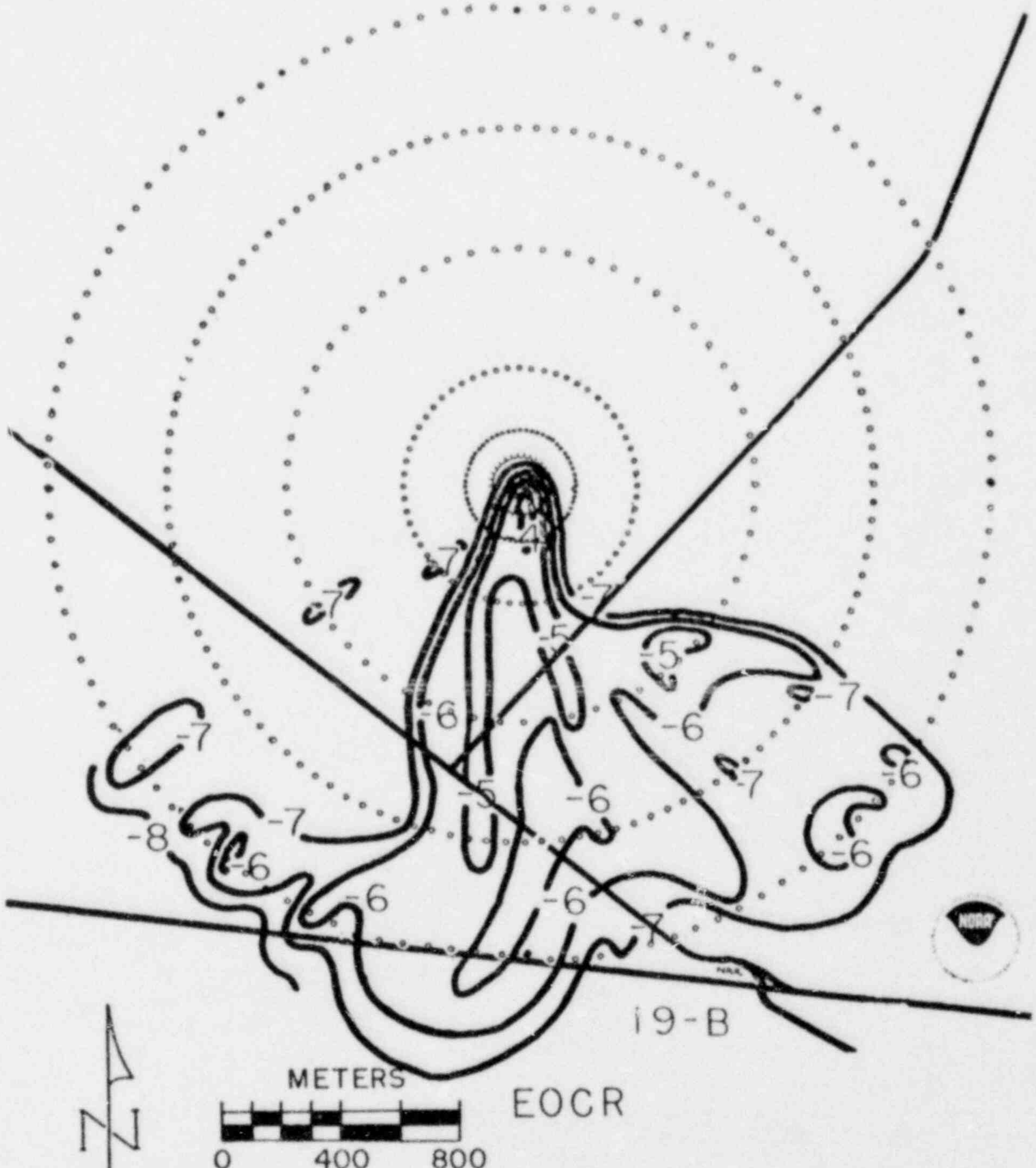

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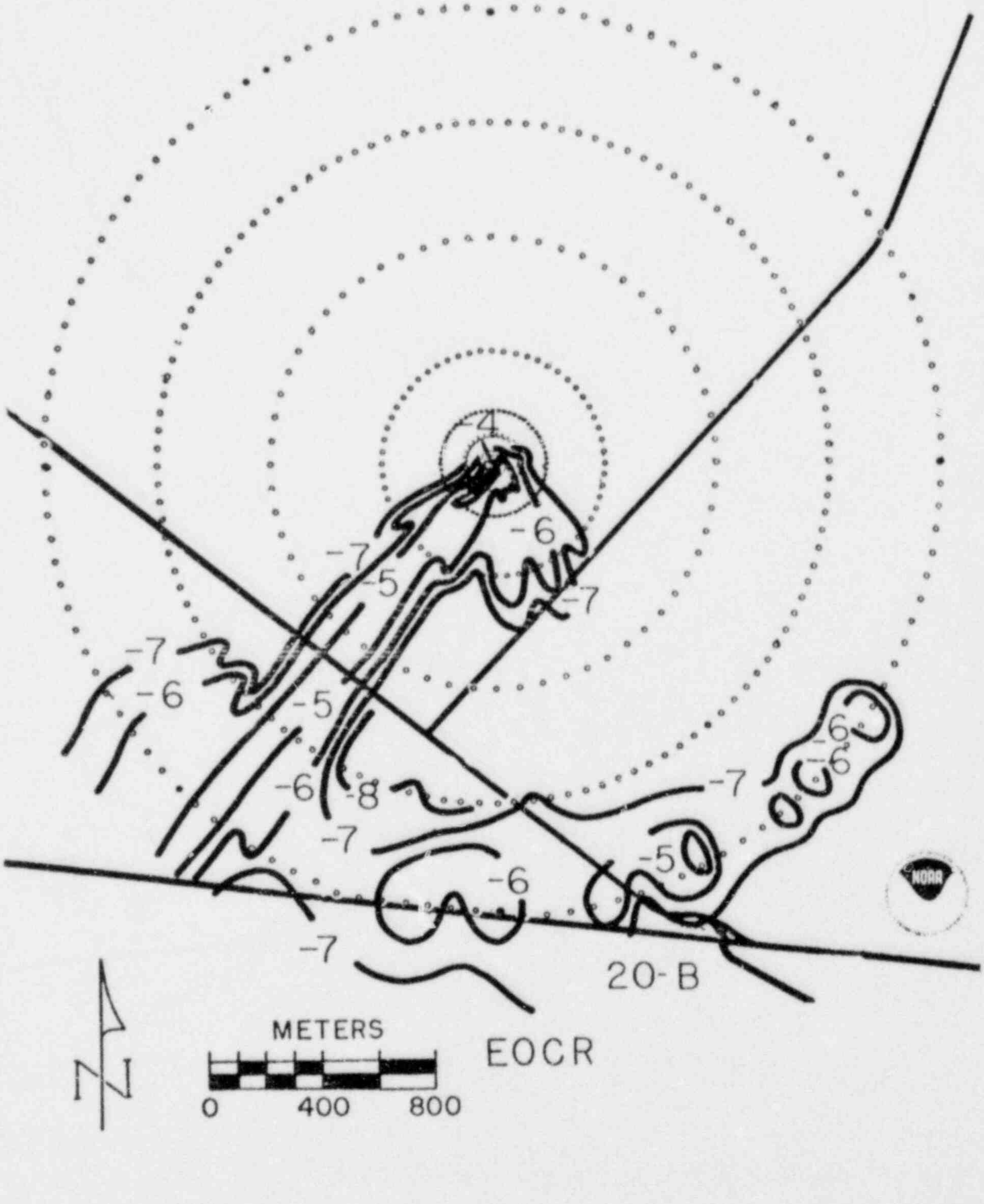

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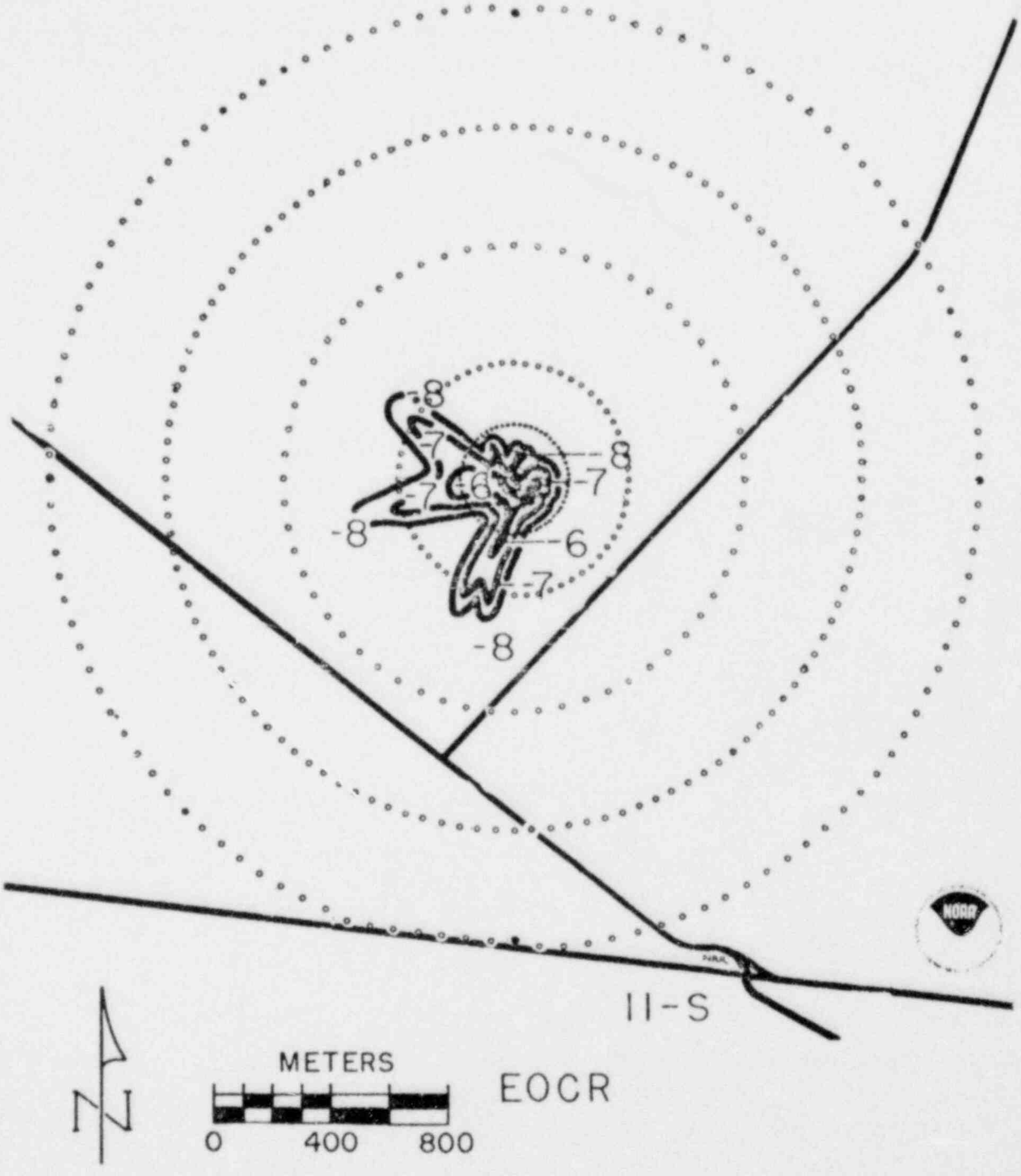
APPENDIX G: Stack Release Concentration Isopleths for Each Test..

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 [illegible] 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 Analyse

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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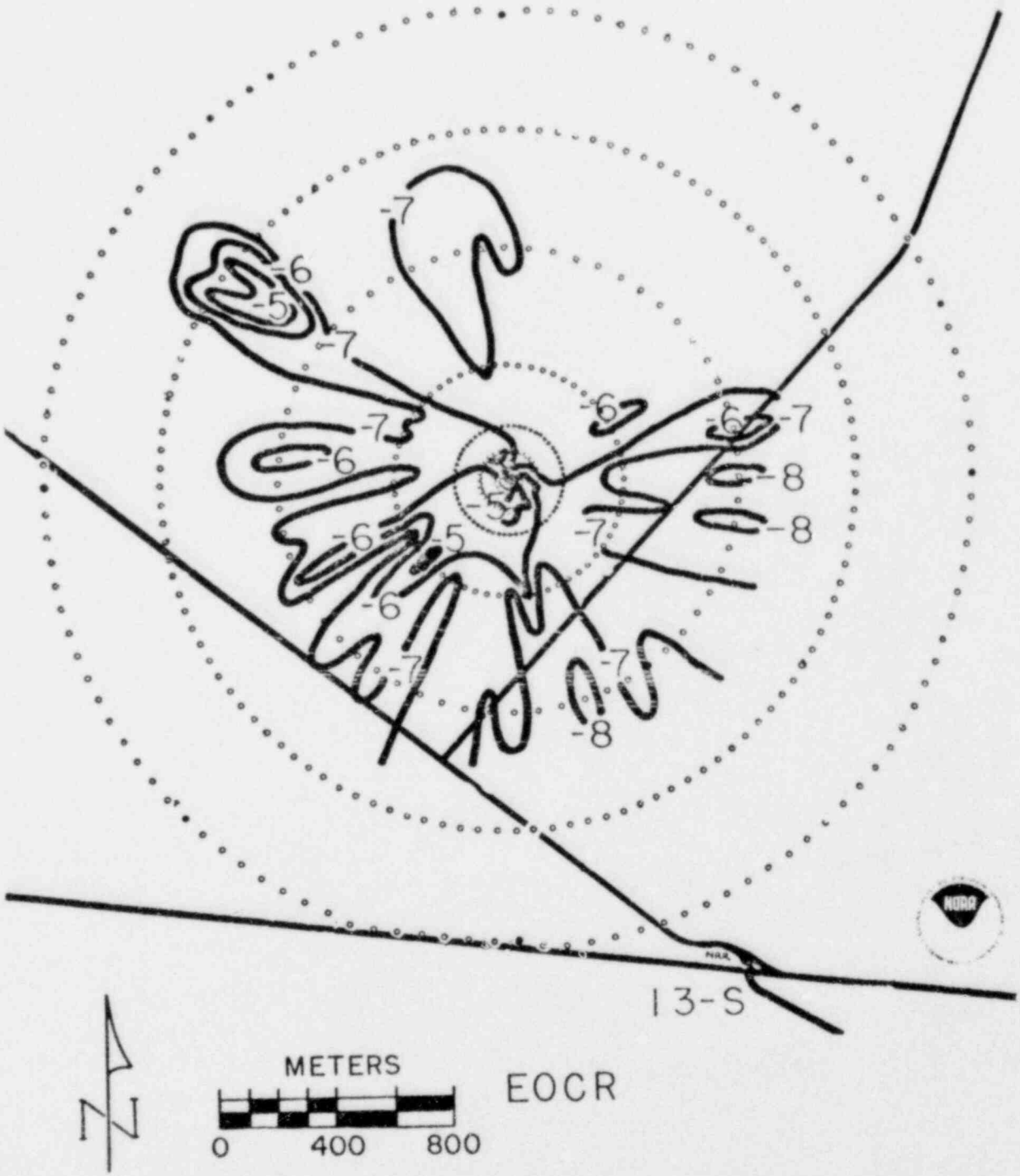
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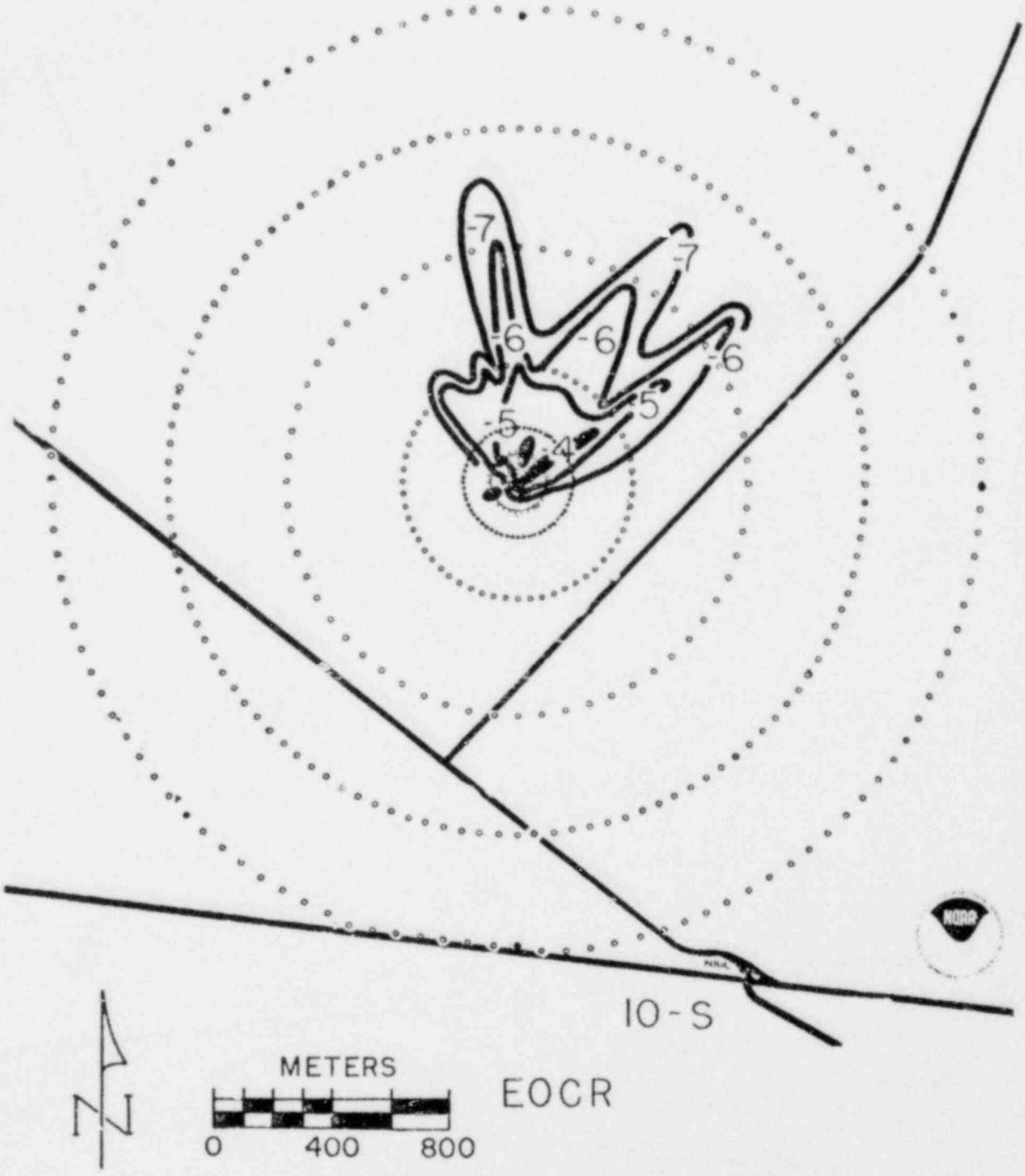
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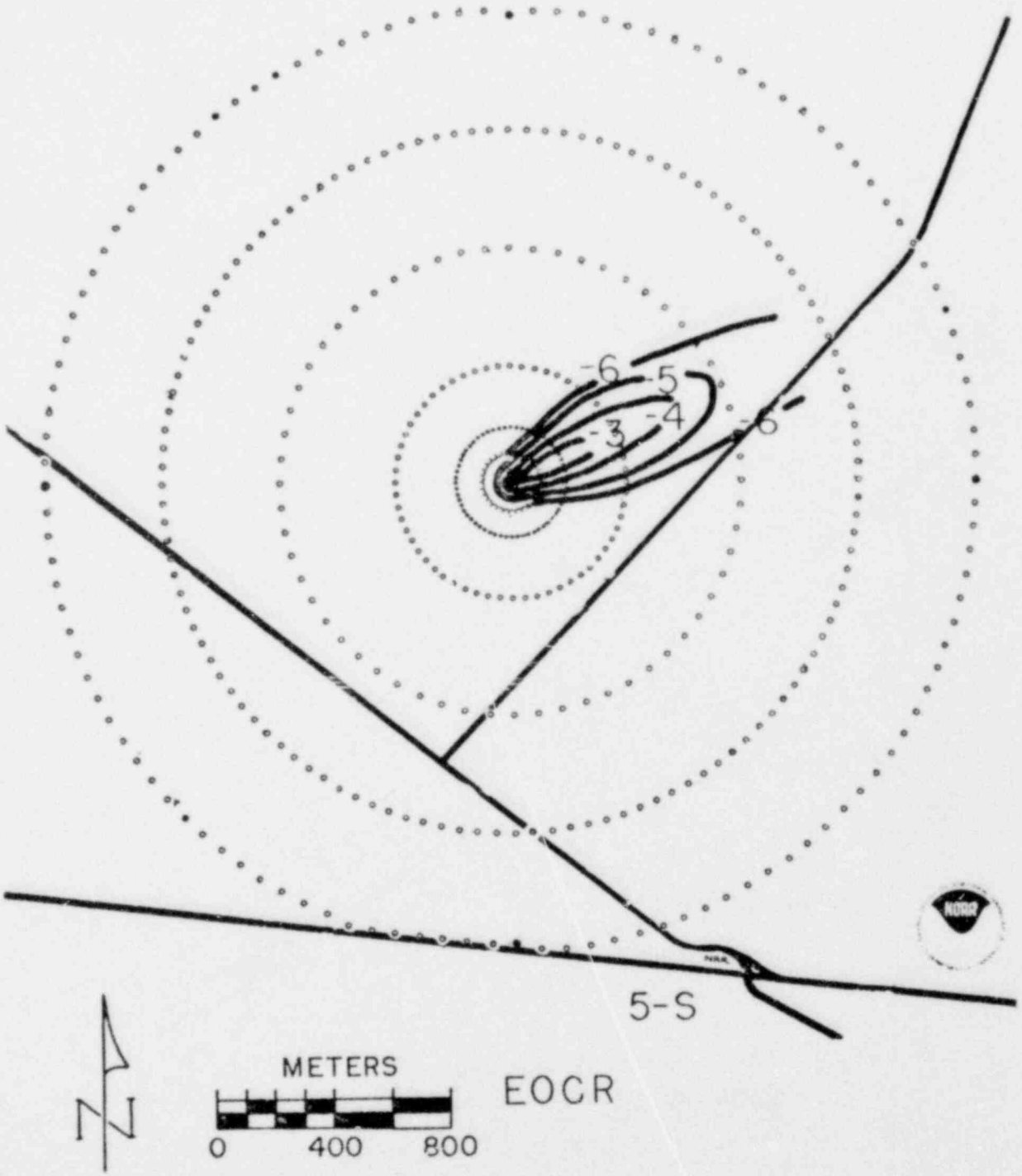
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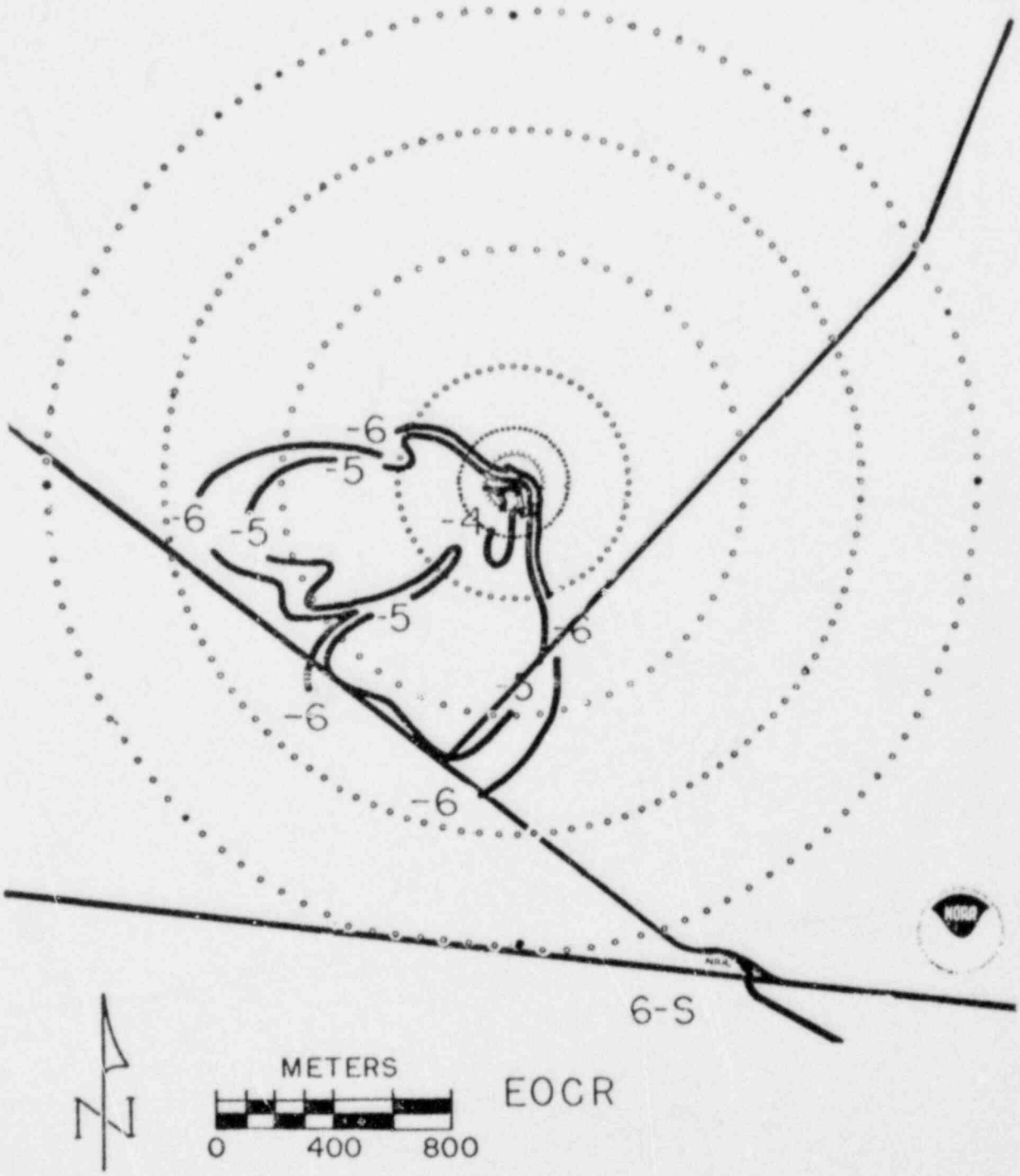
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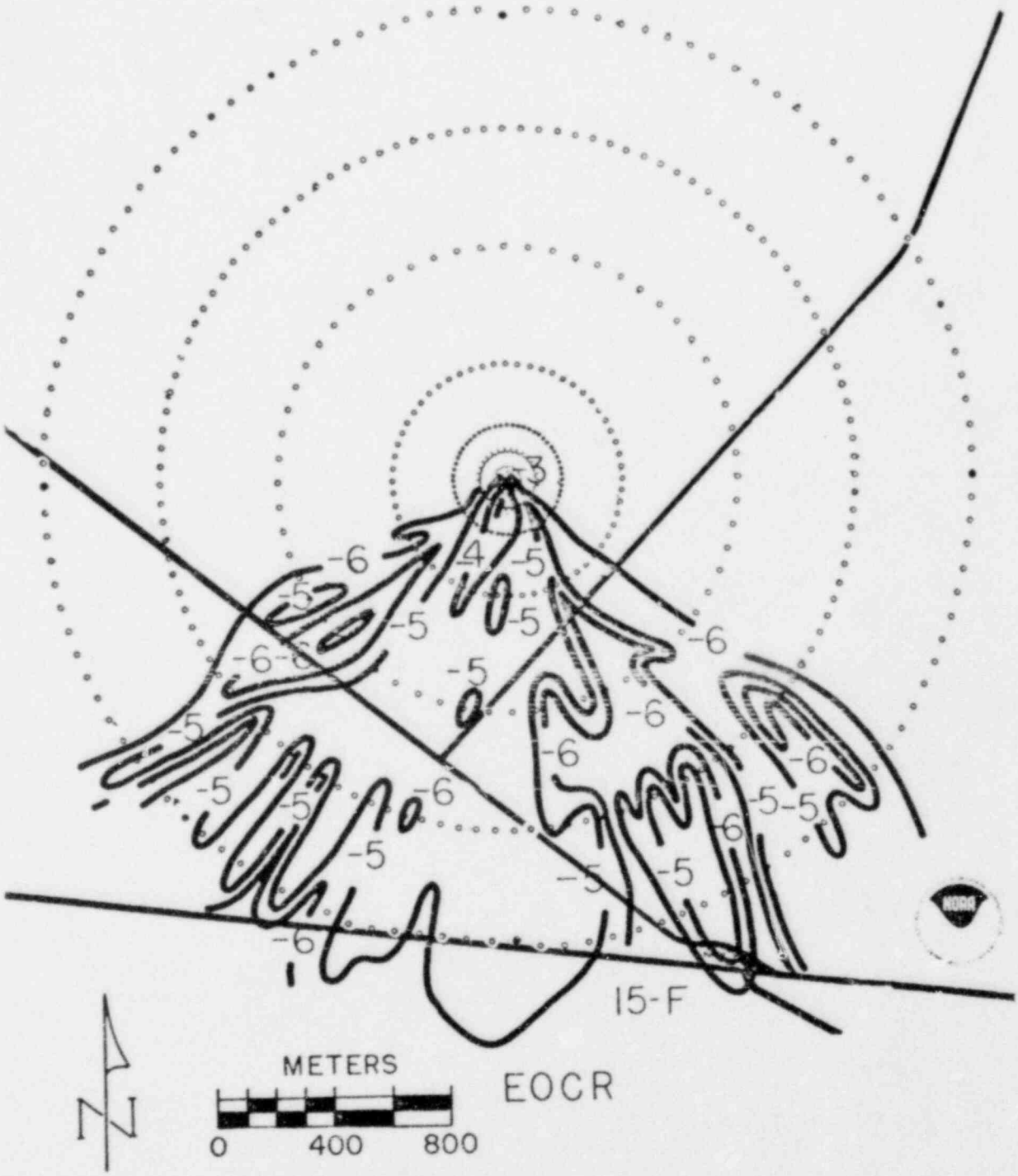
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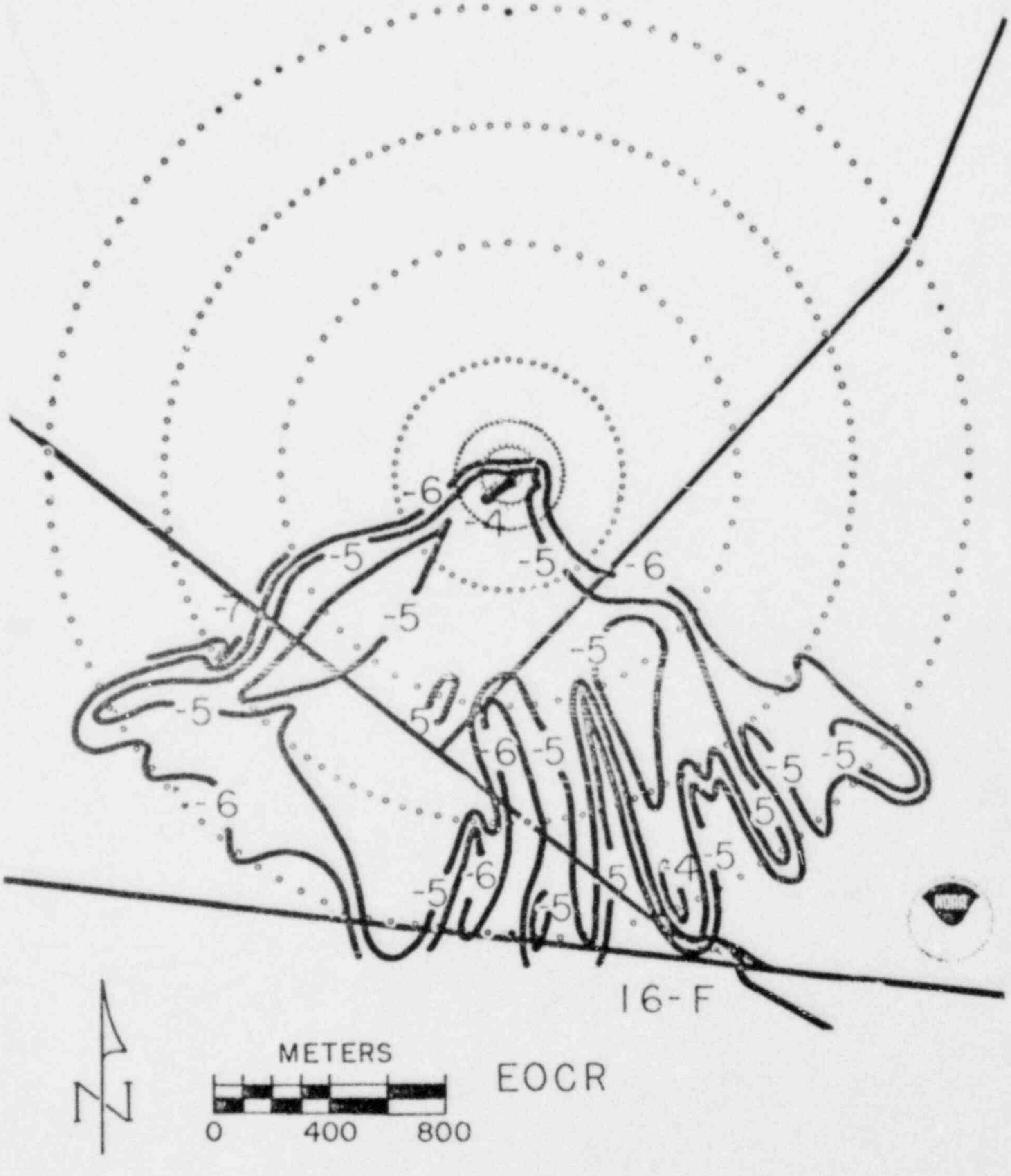

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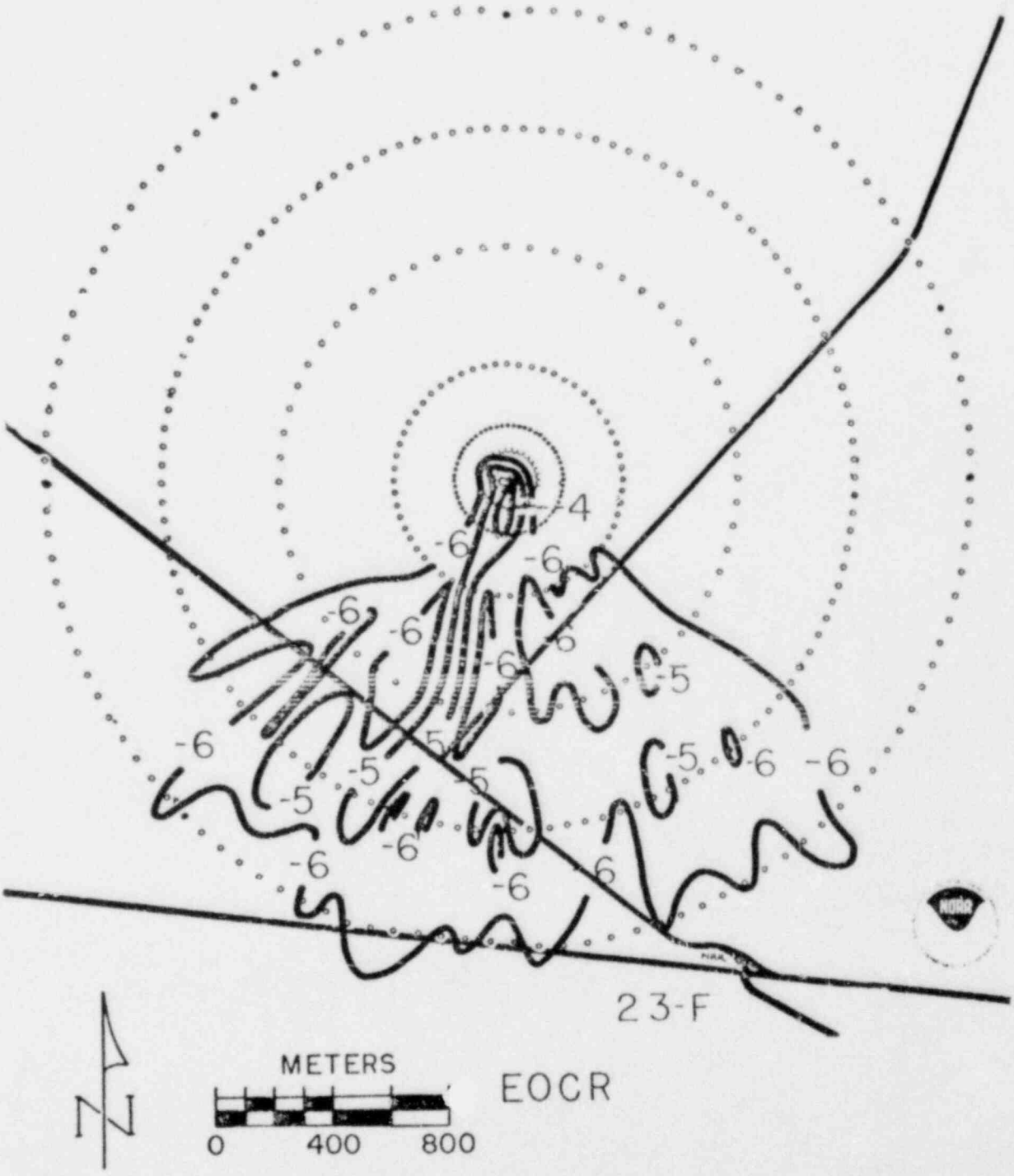
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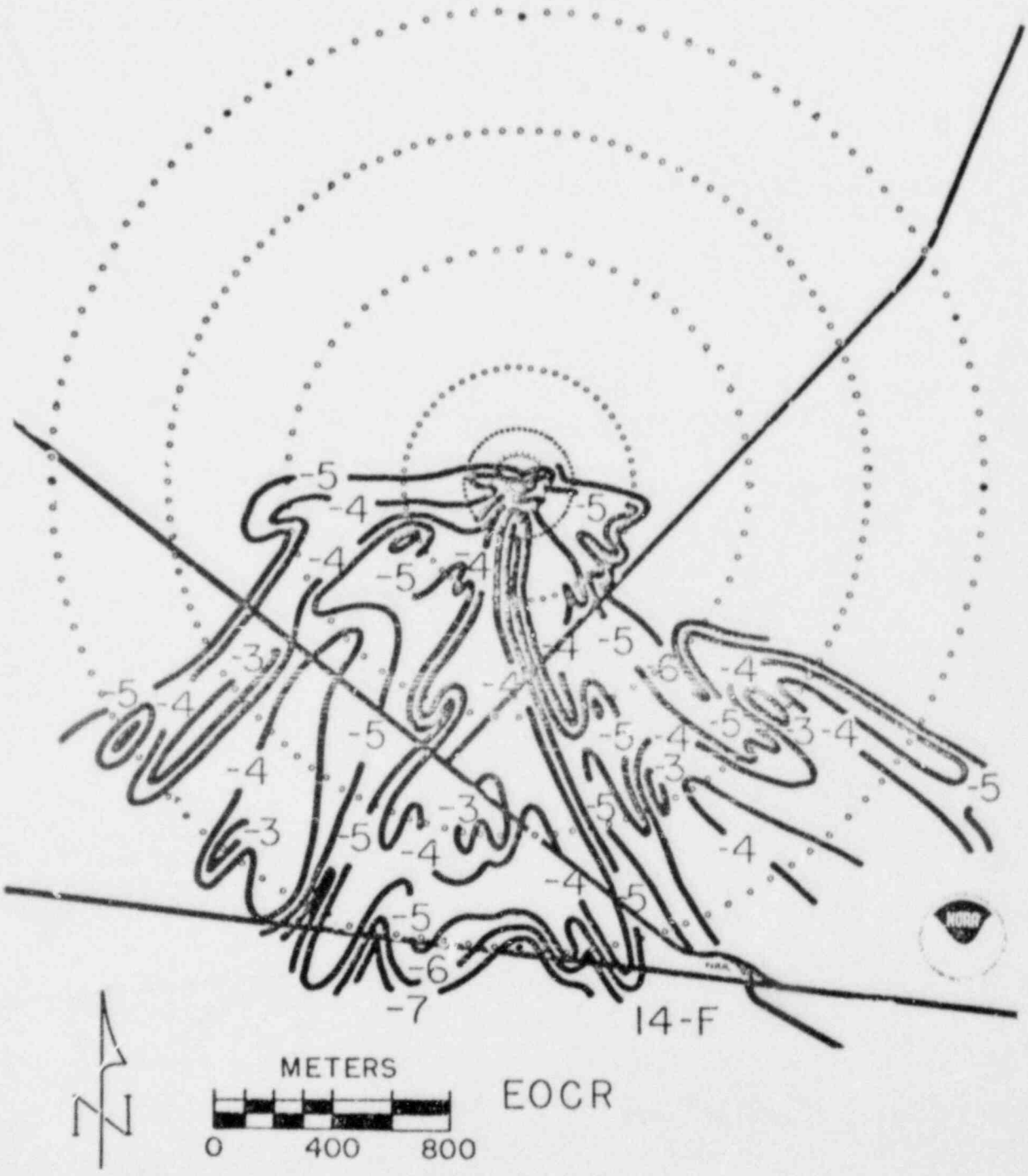
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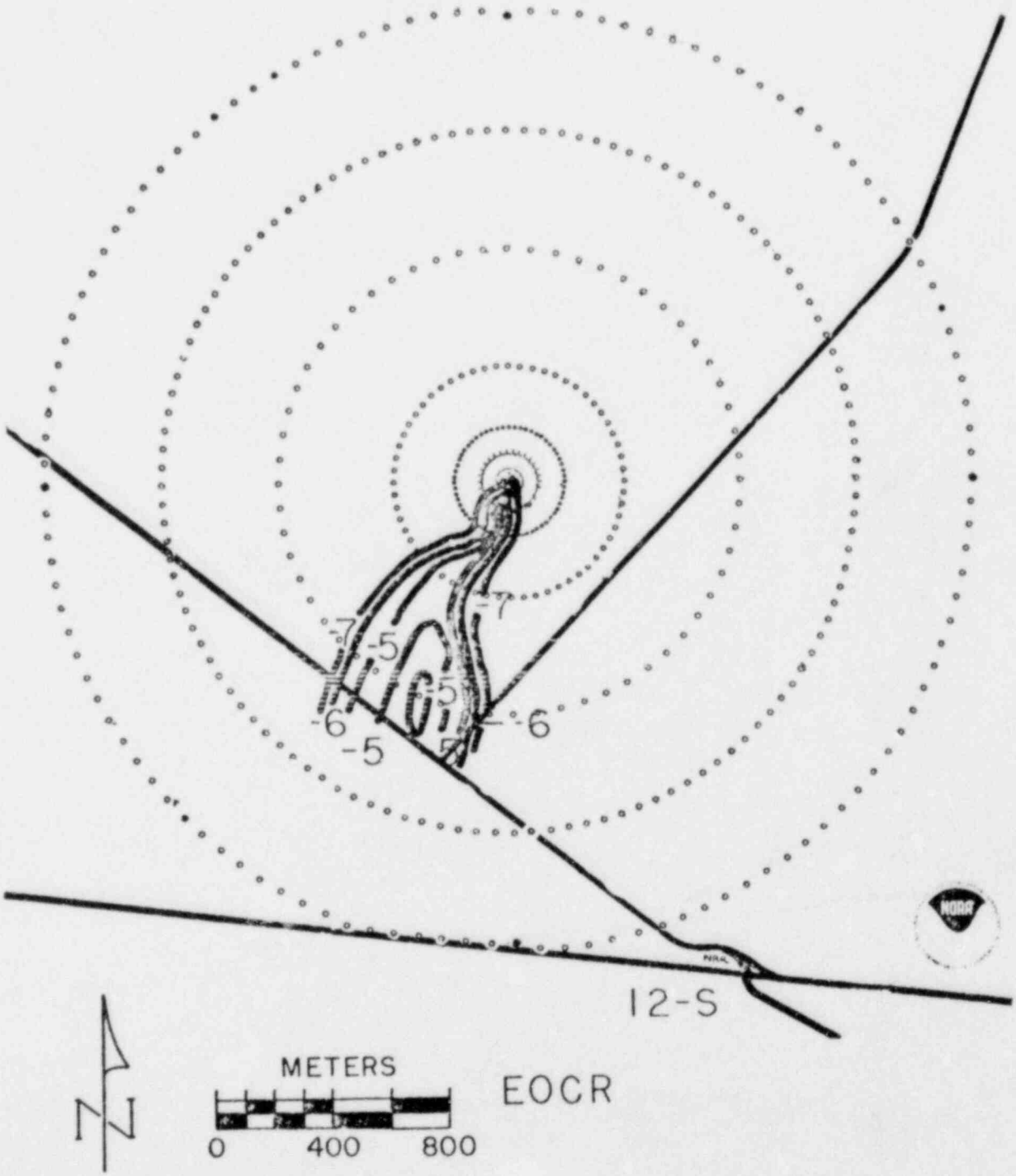
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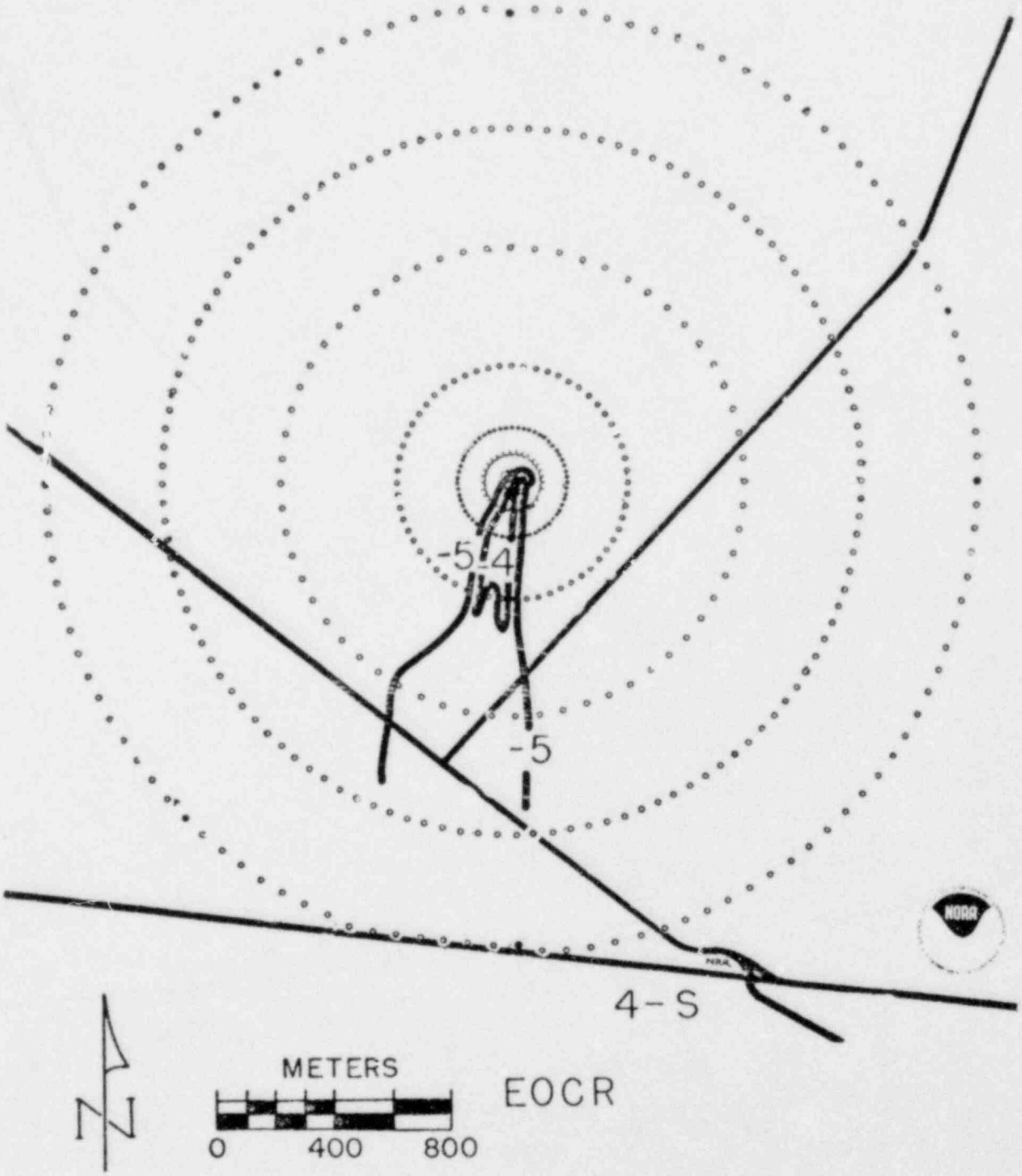
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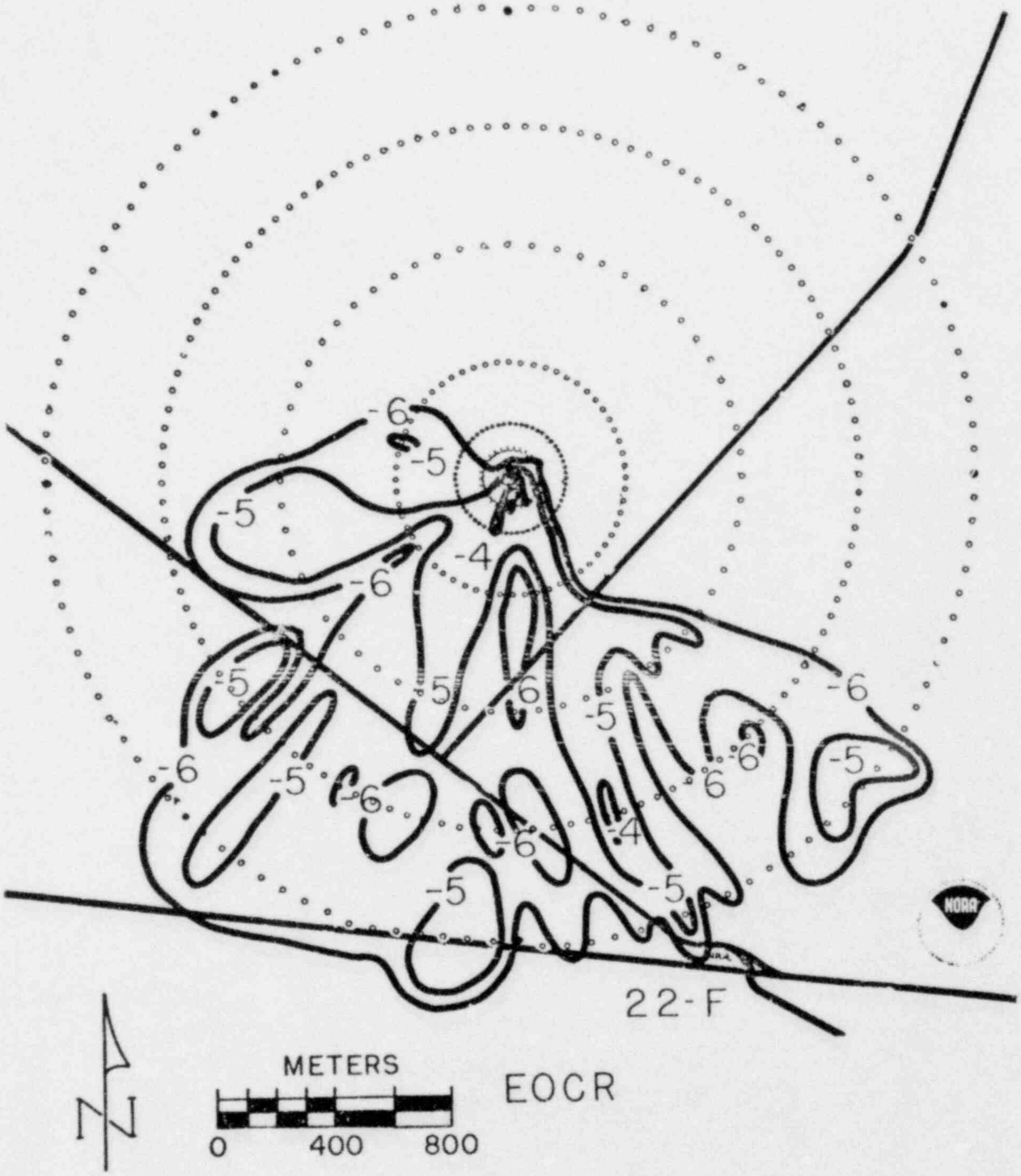

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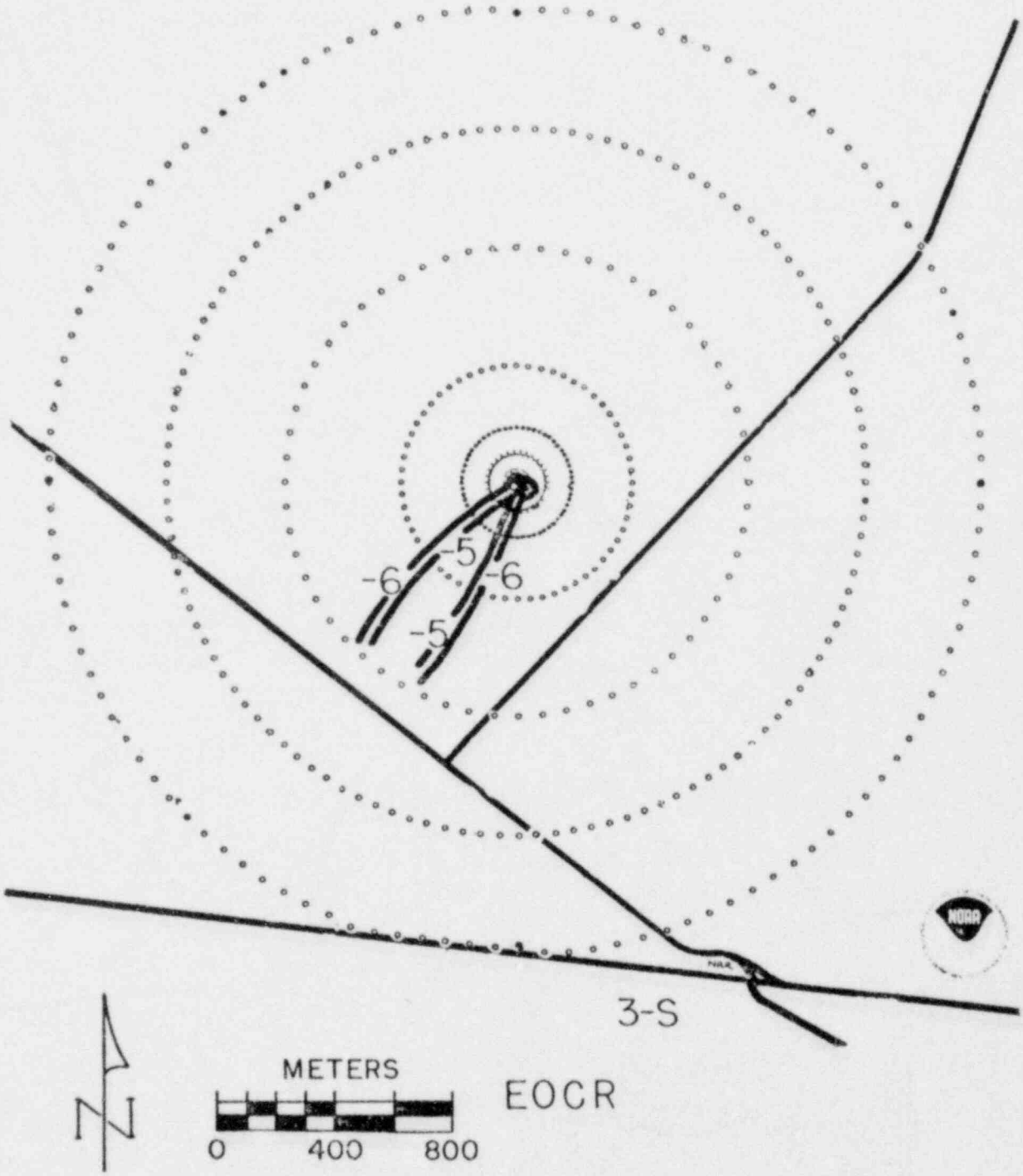
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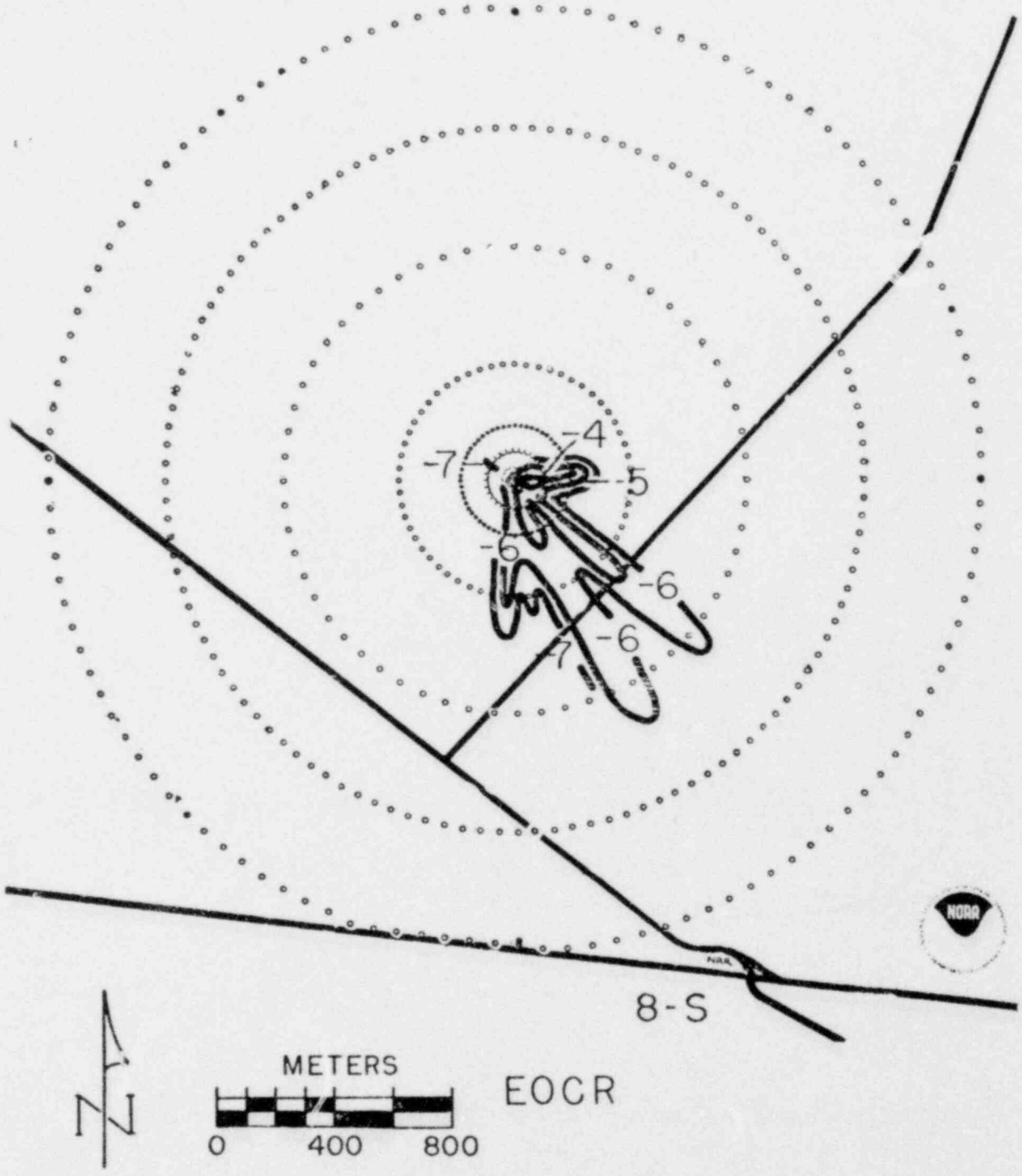
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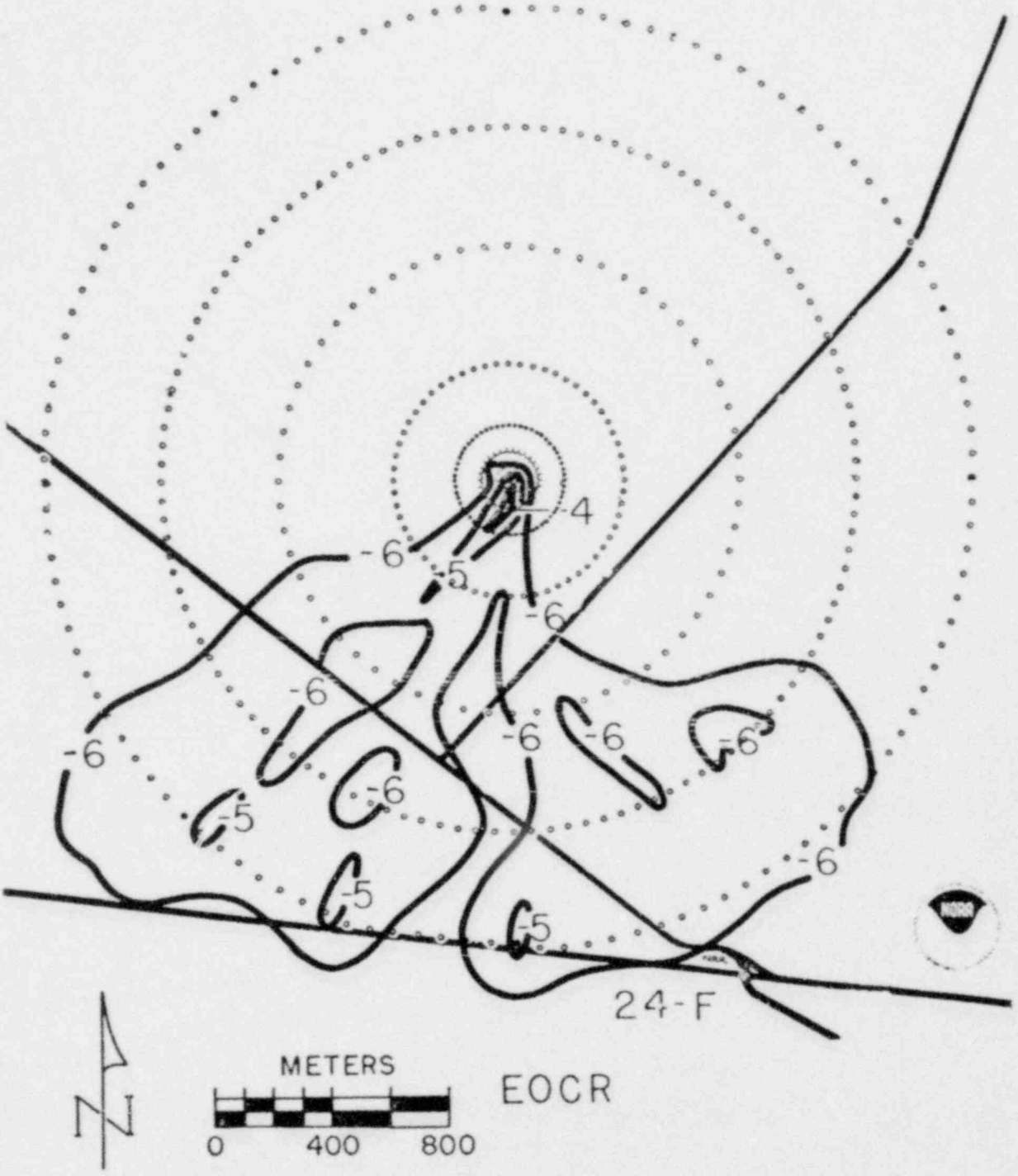
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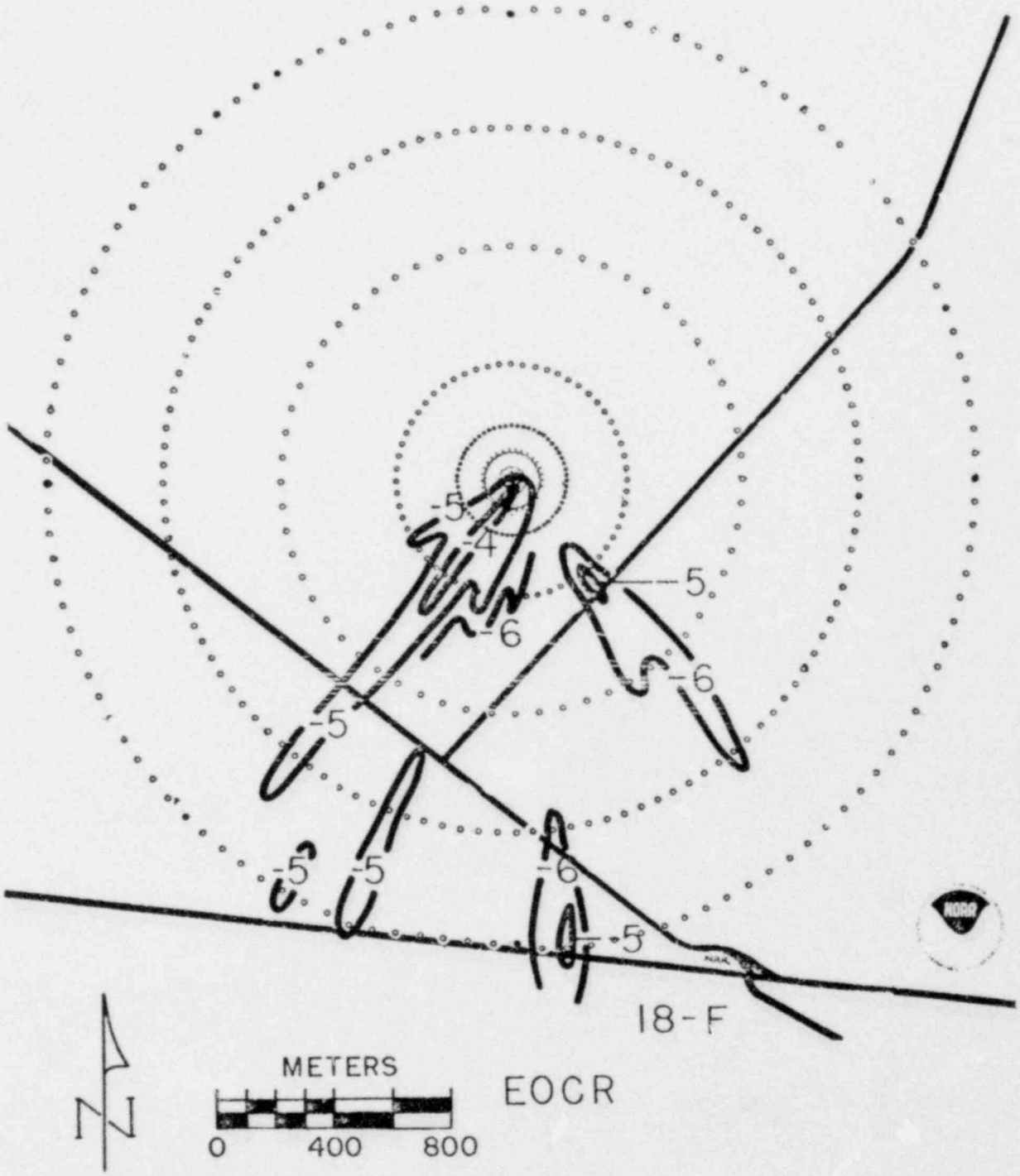
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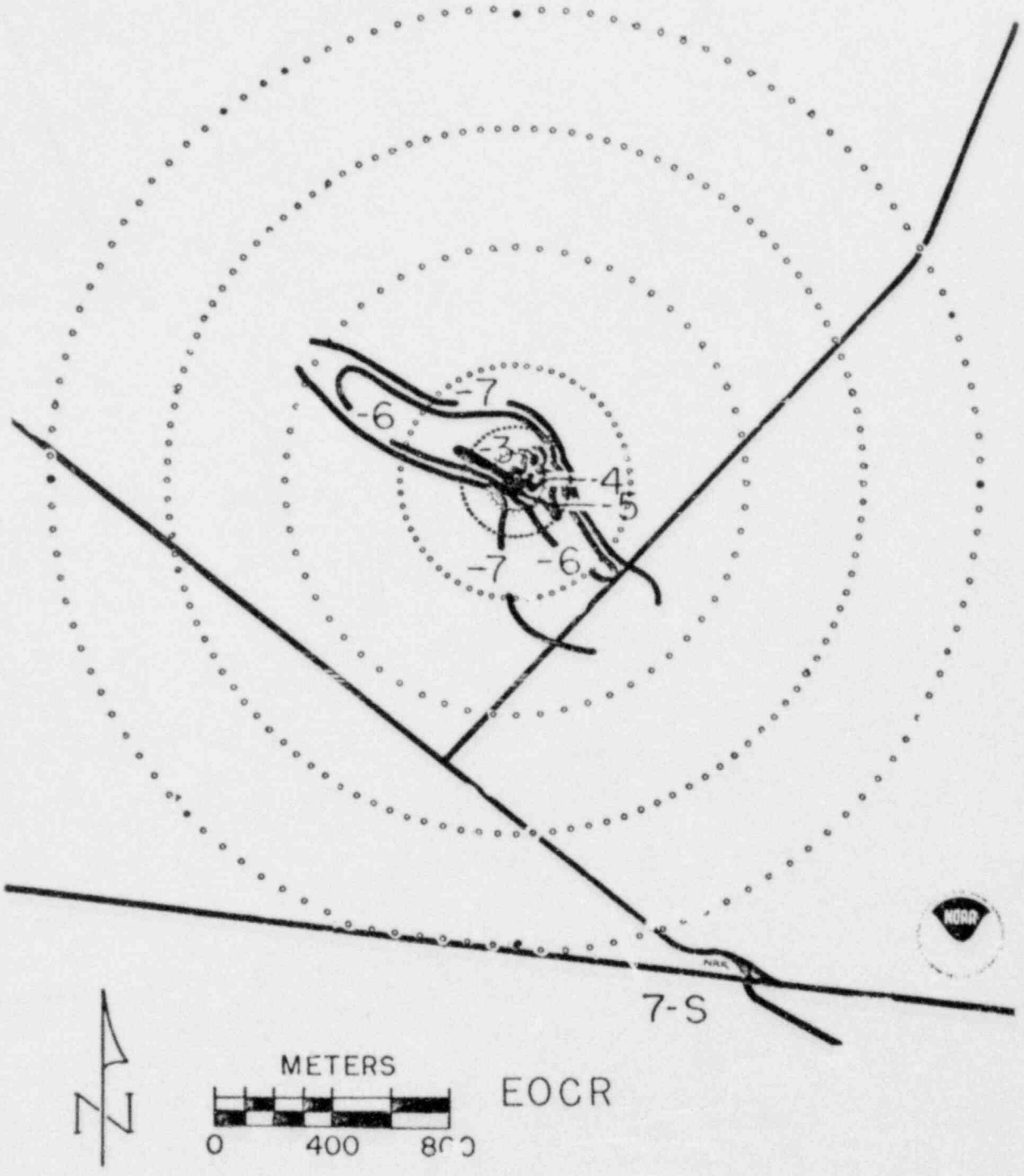
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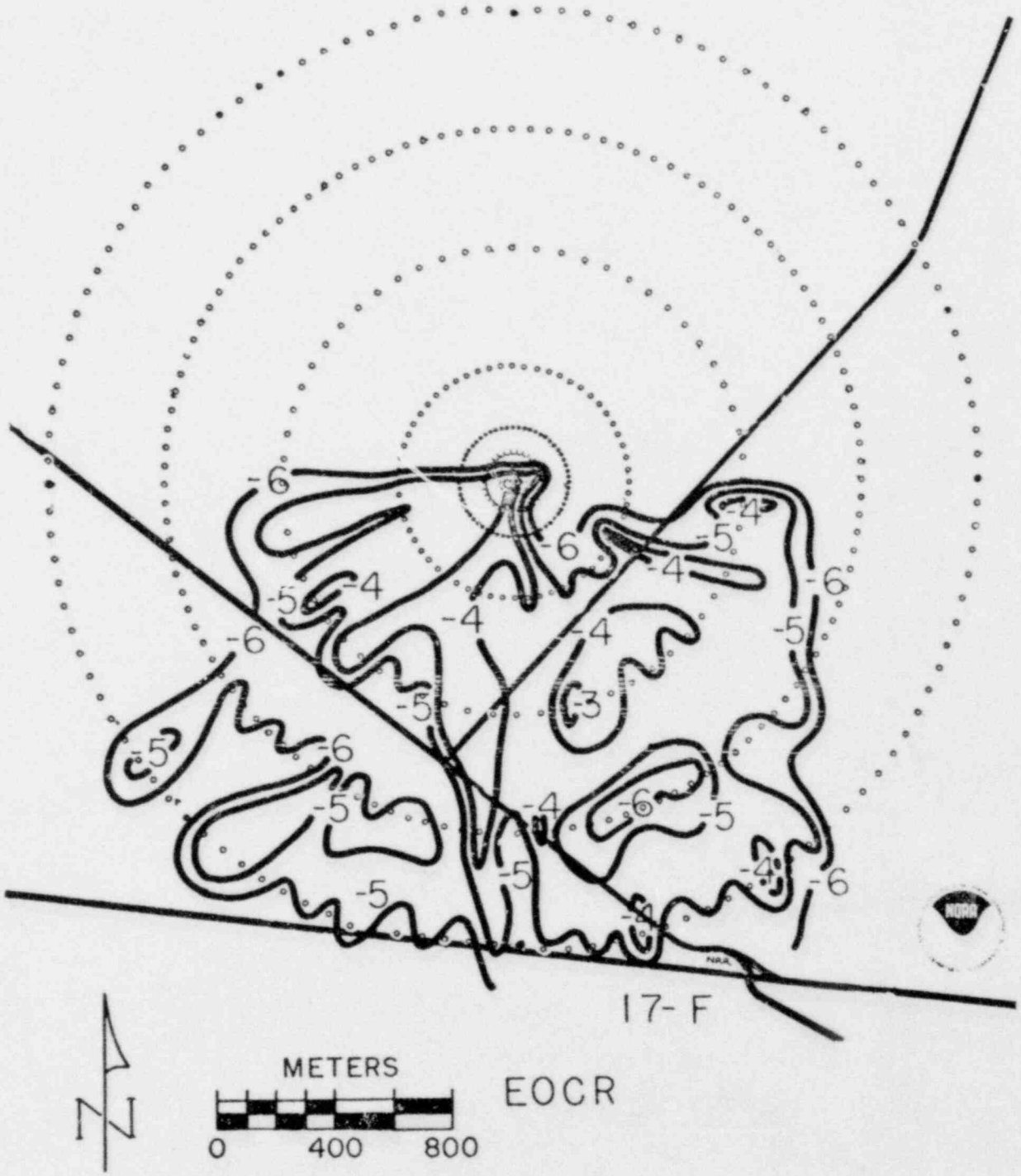
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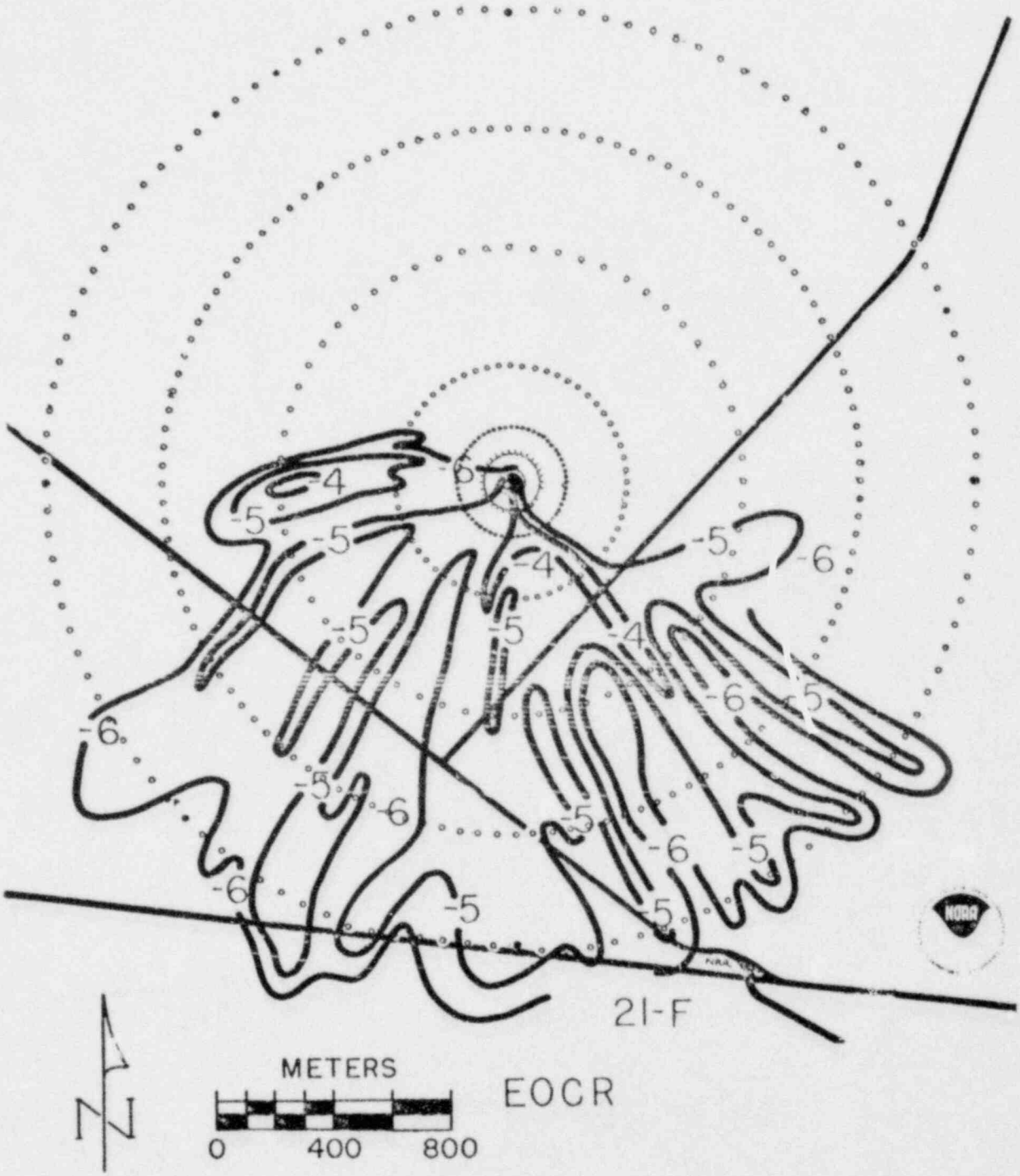
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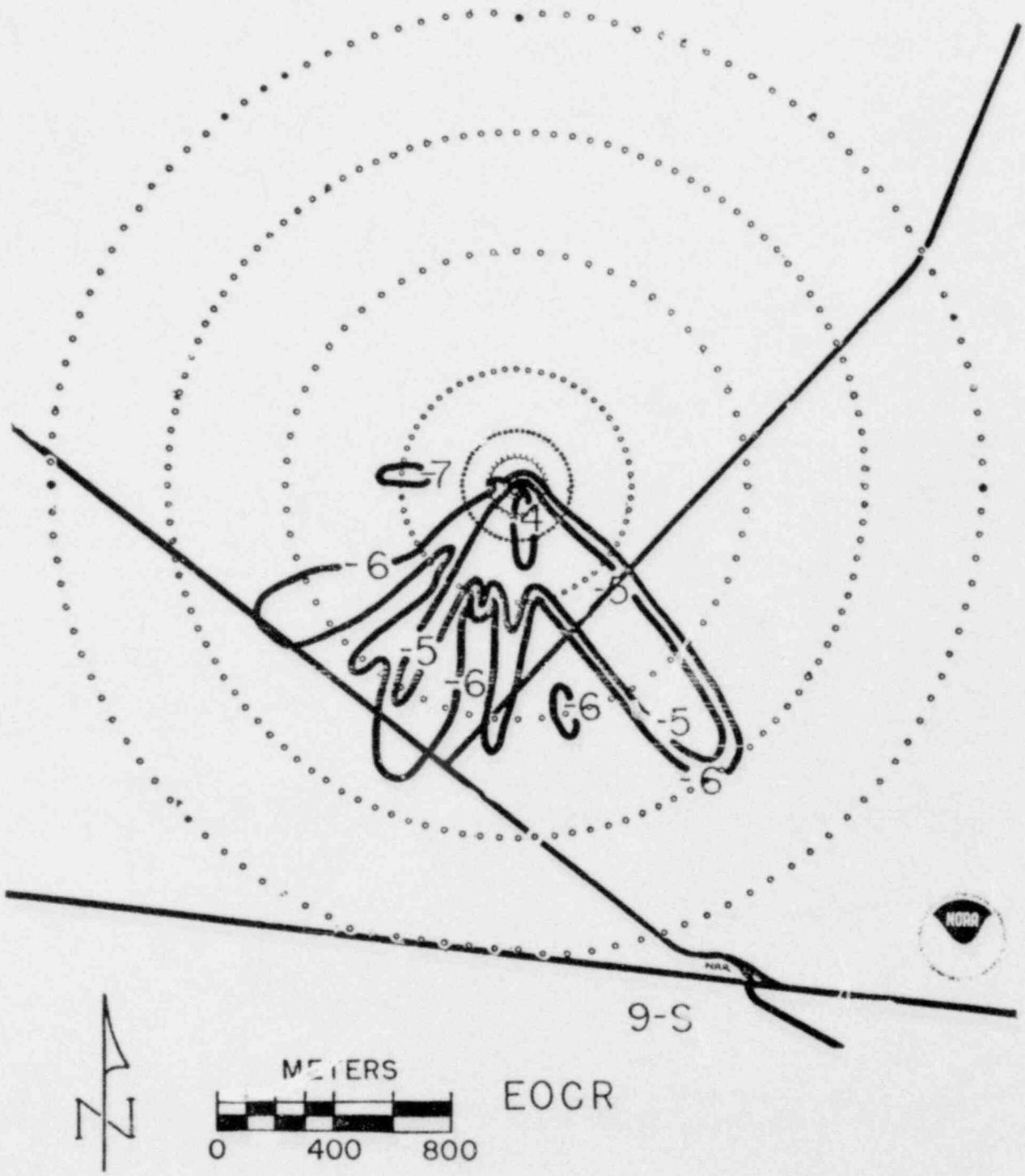
EOCR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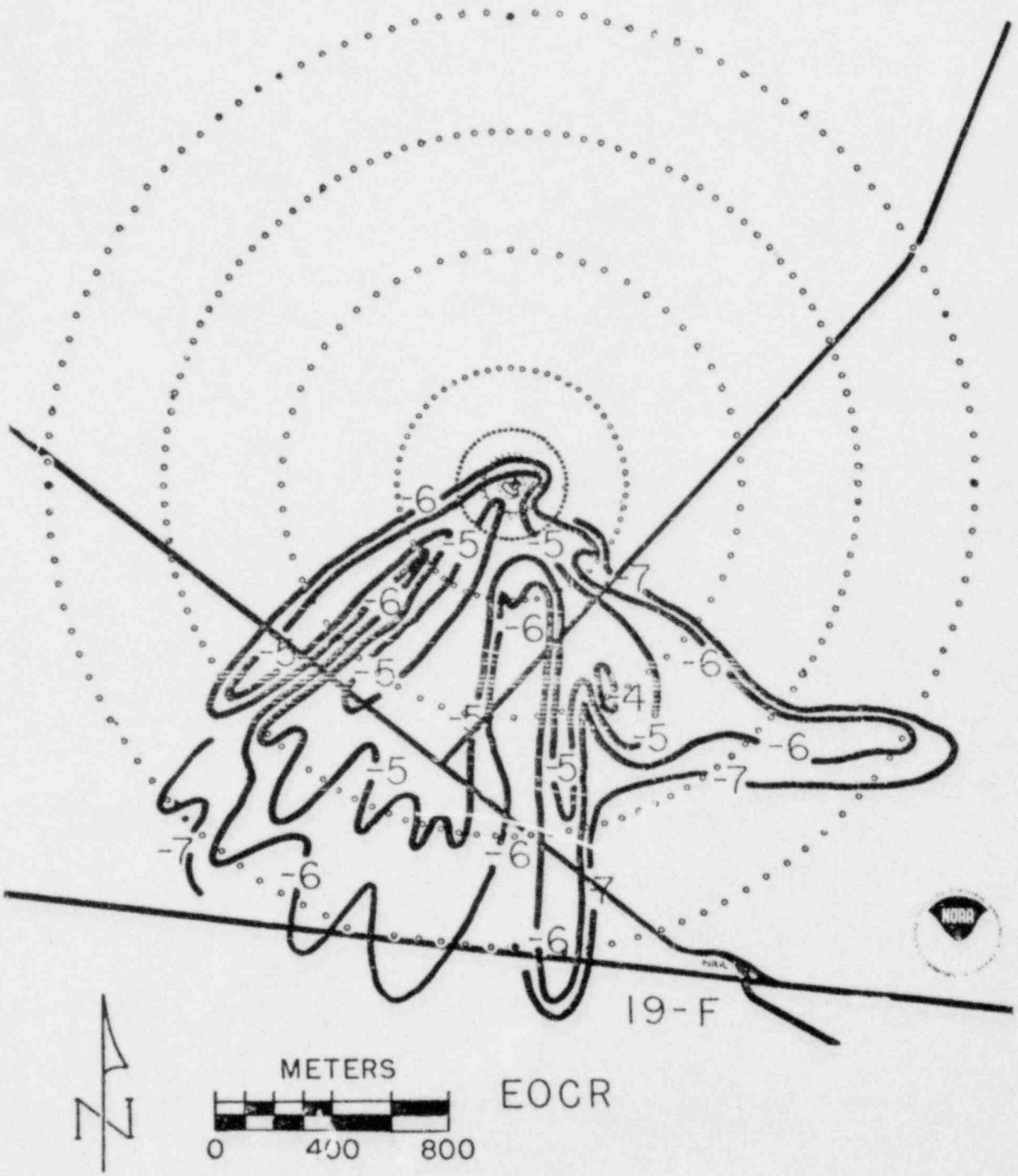
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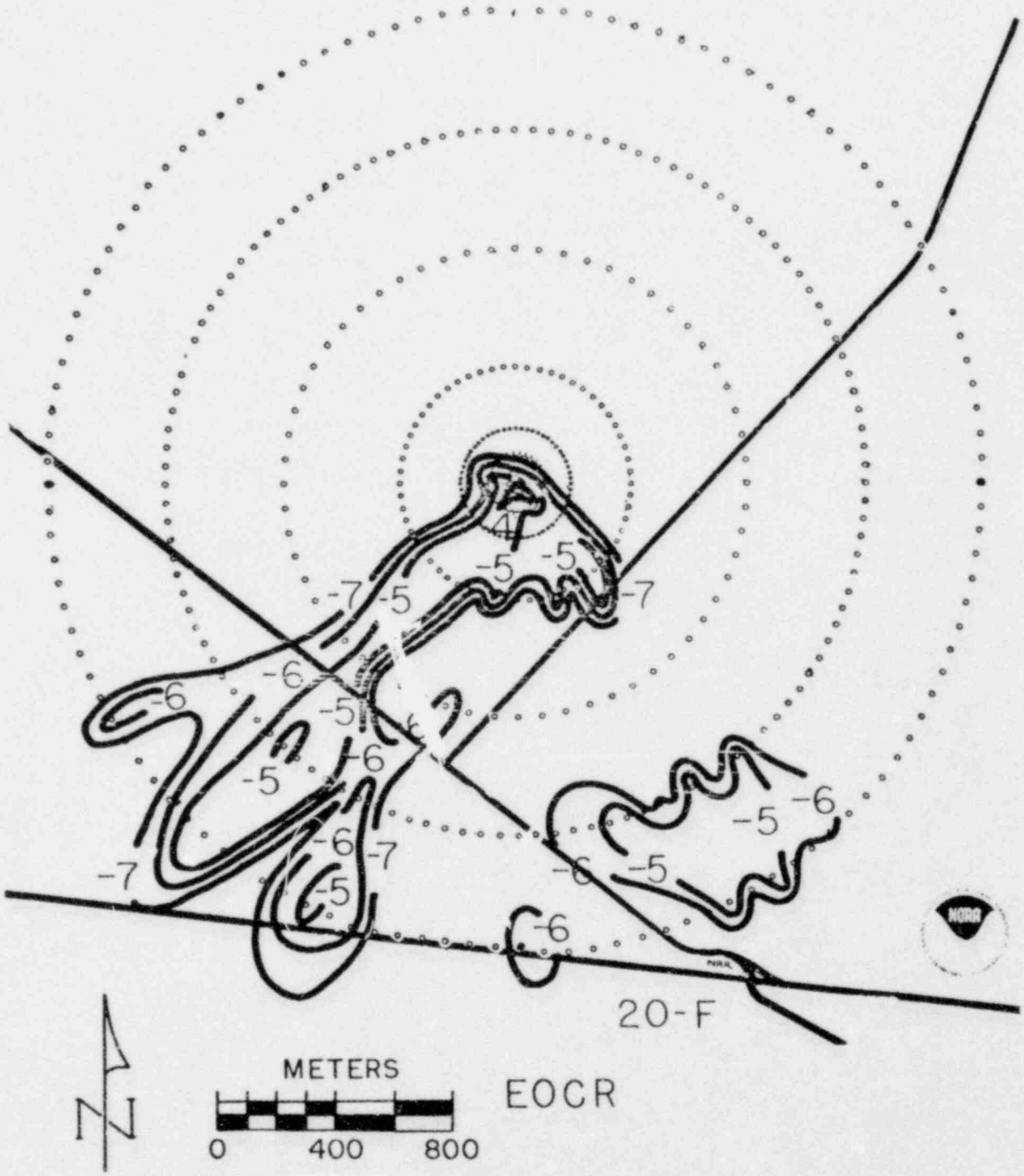
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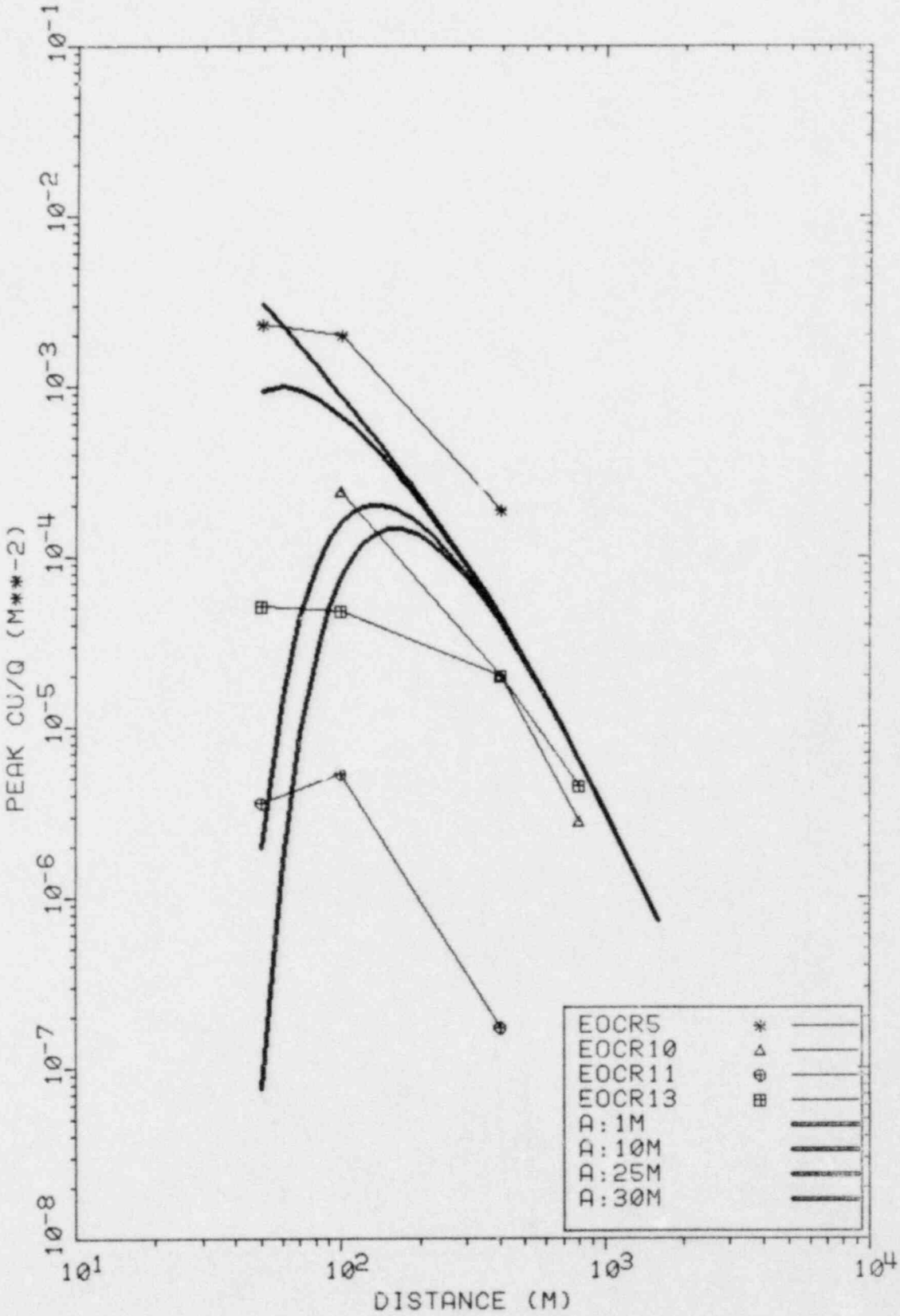
-6
-6
-5
-6
20-F
N
METERS
0
400
800
EOCR

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

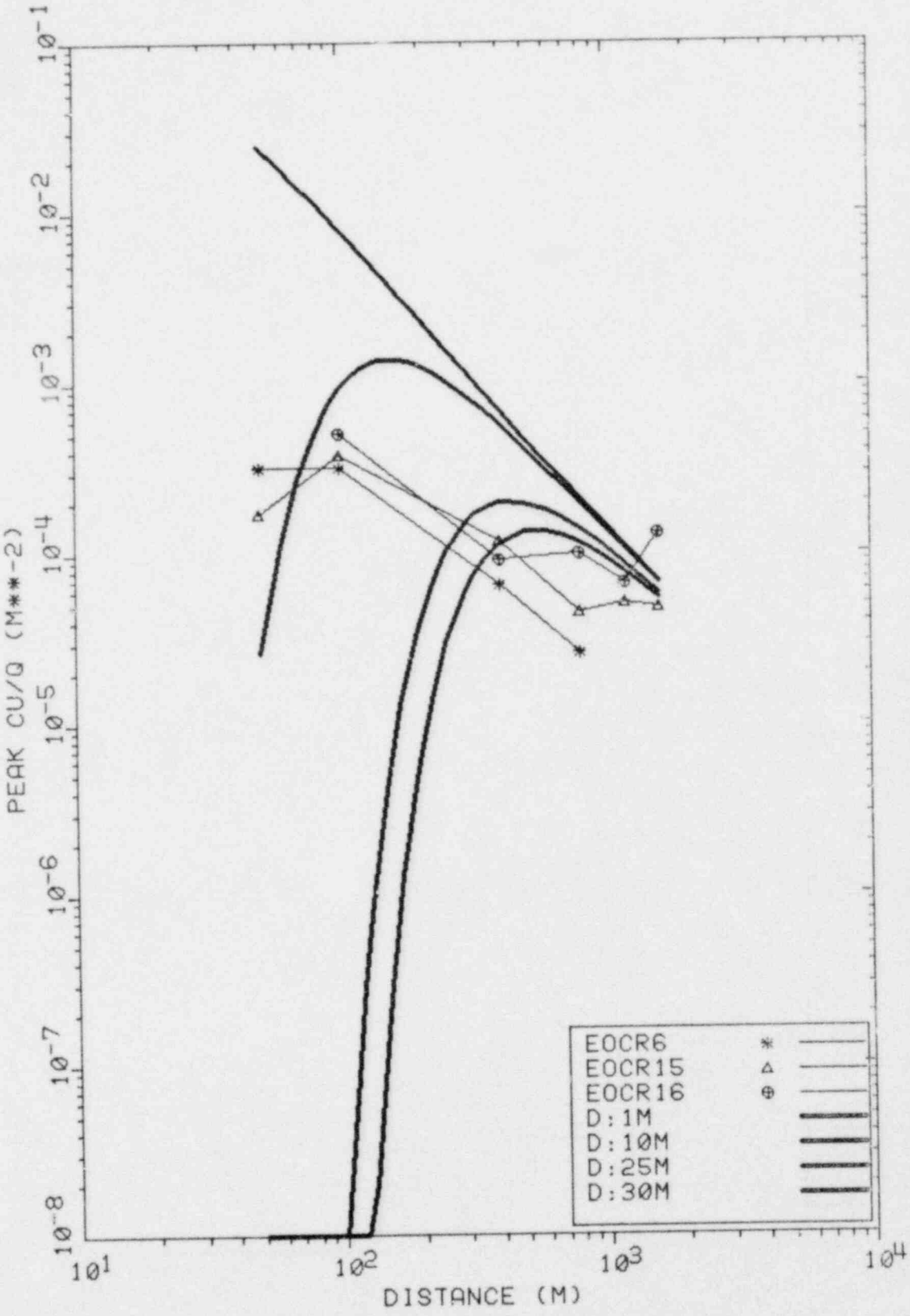
This appendix contains plots of three different diffusion parameters or statistics vs distance with separate plots for each stability category. The first three sets of plots contain measured peak concentrations and curves of Pasquill-Gifford predictions of peak concentrations at 1m, 10m, 25m, and 30m. 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.

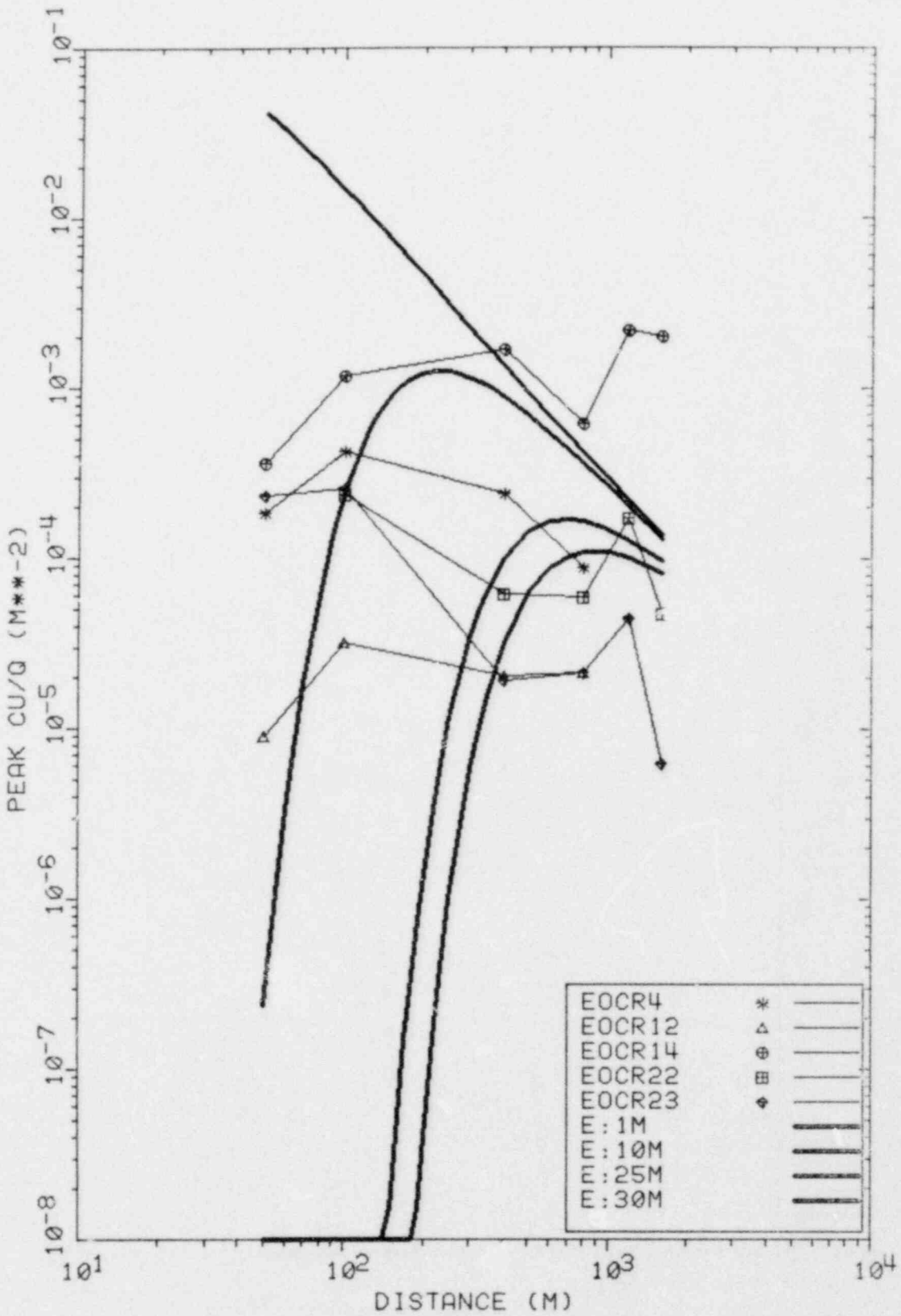
The last set of plots contain all the measured values of peak concentrations, σ_y, and σ_z with all stability classes included on each plot. Curves of Pasquill-Gifford predictions for these statistics are also included on these plots.



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



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



STACK RELEASE
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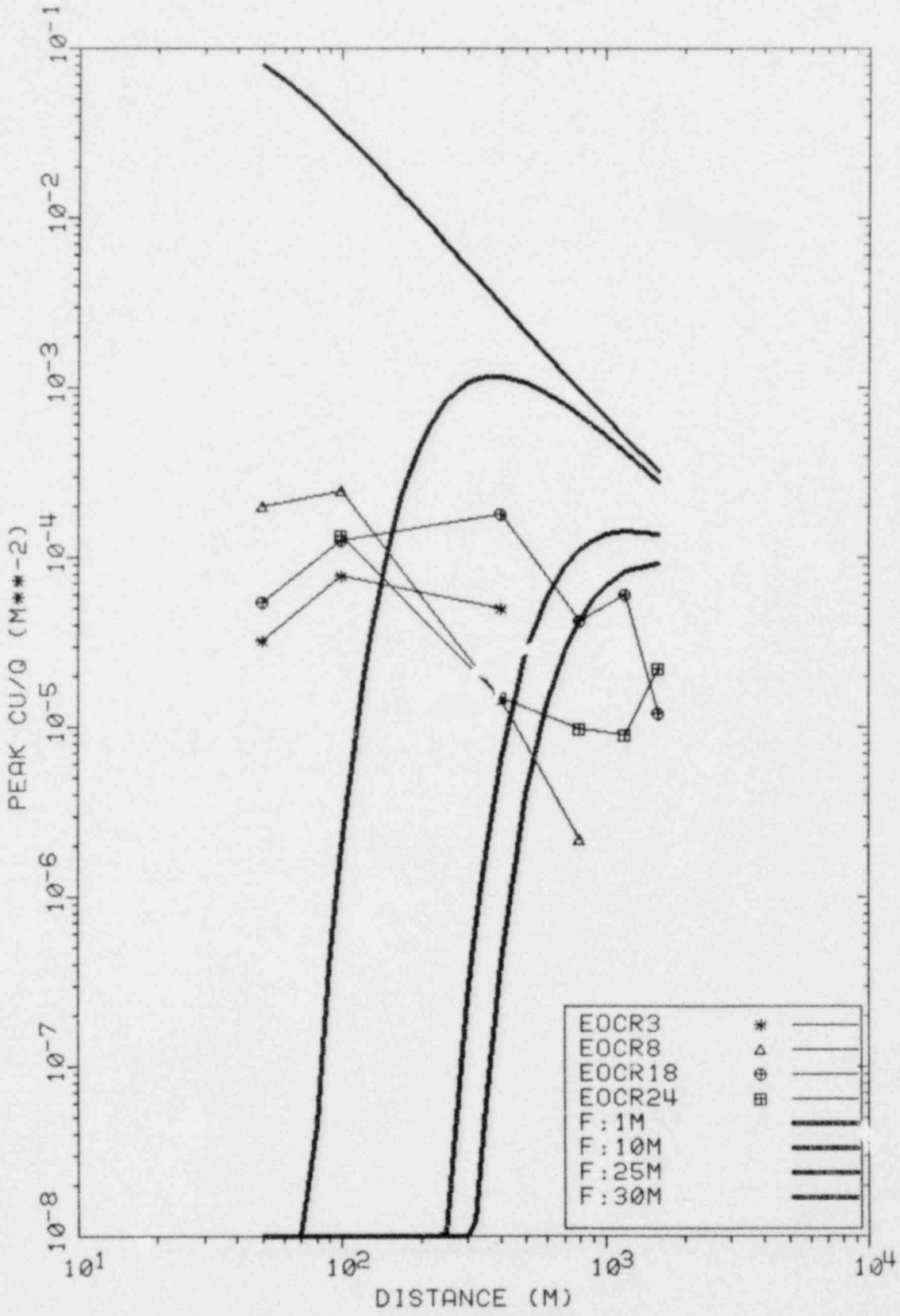

STACK RELEASE
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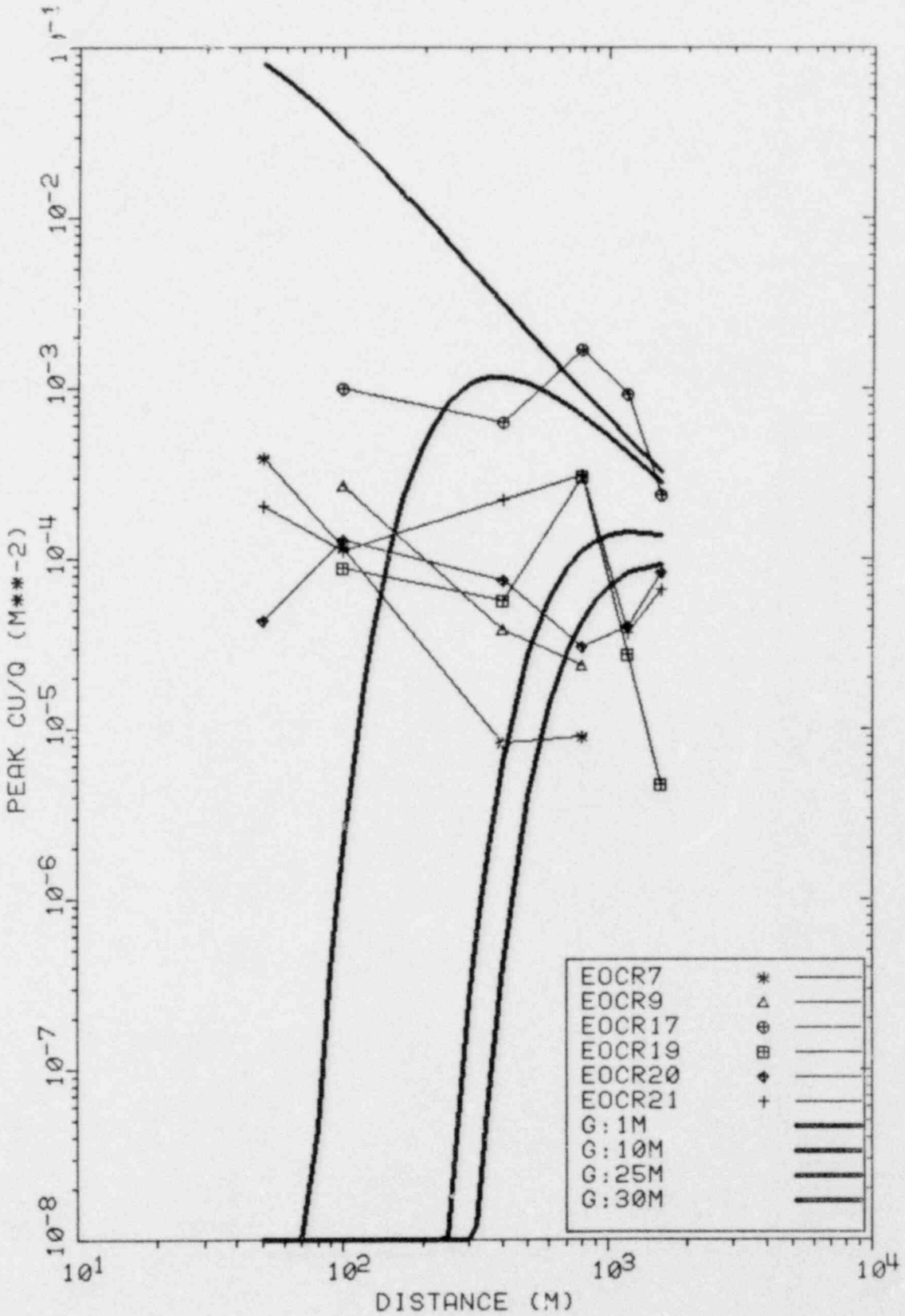

STACK RELEASE
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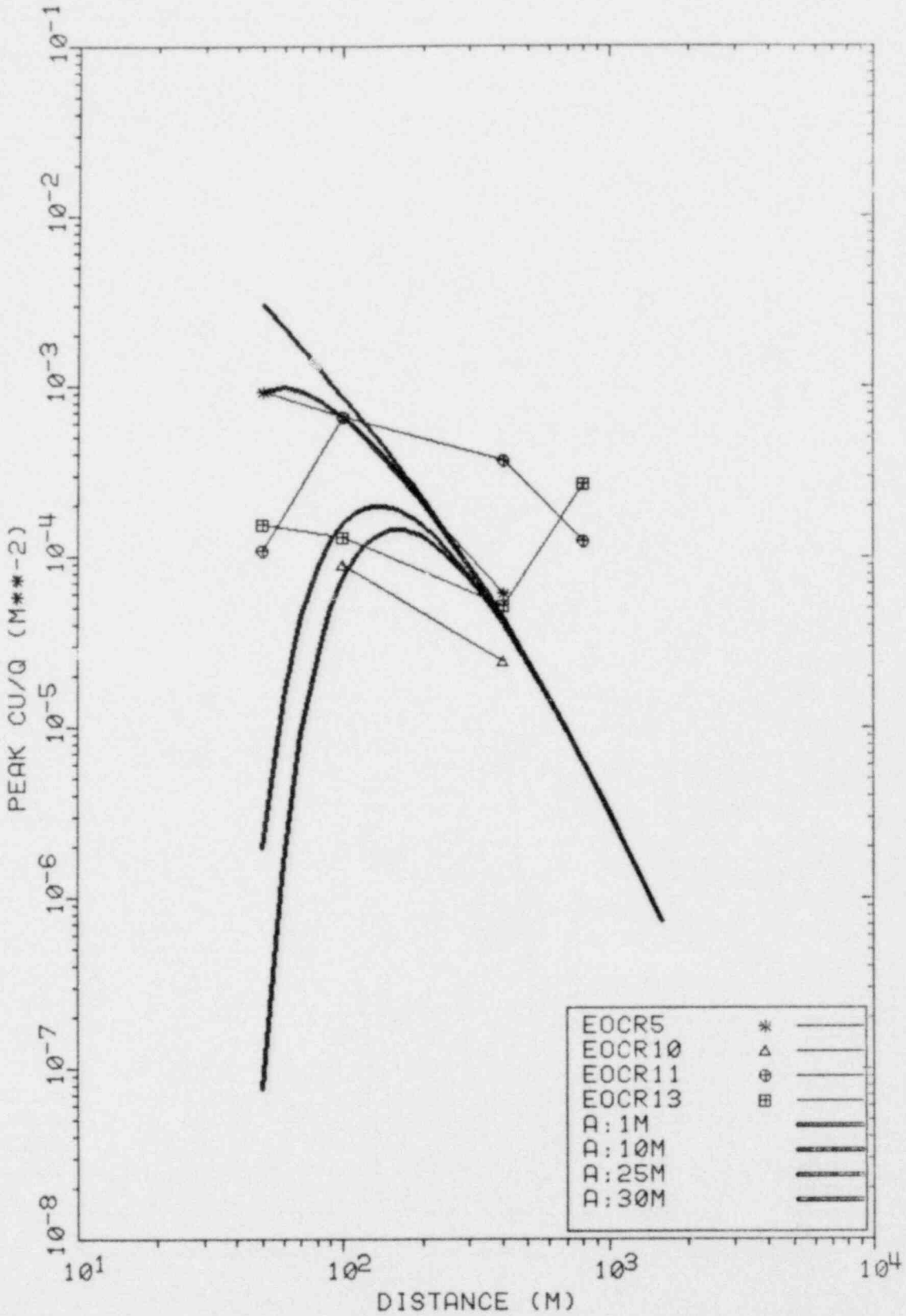

ROOF RELEASE
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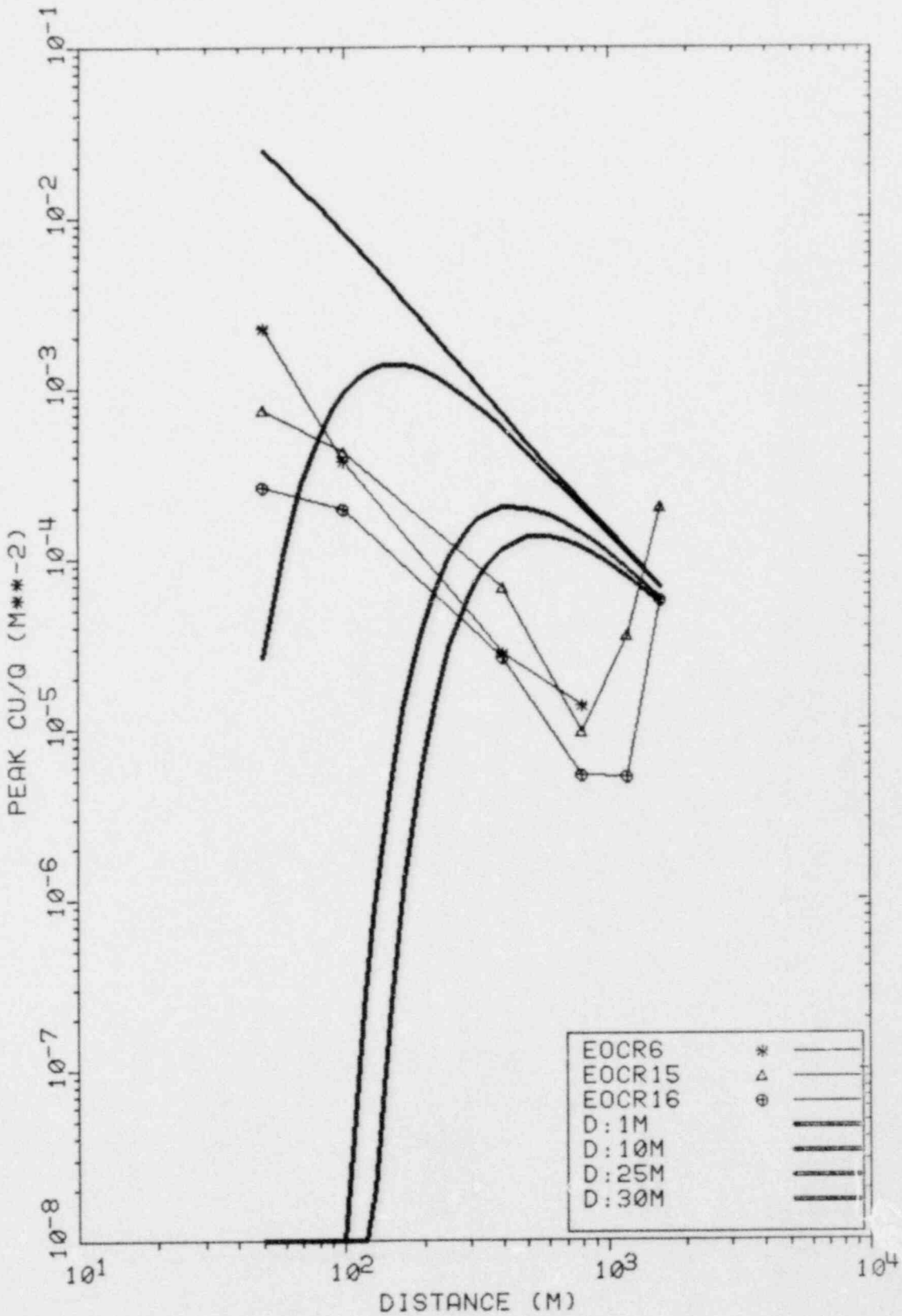

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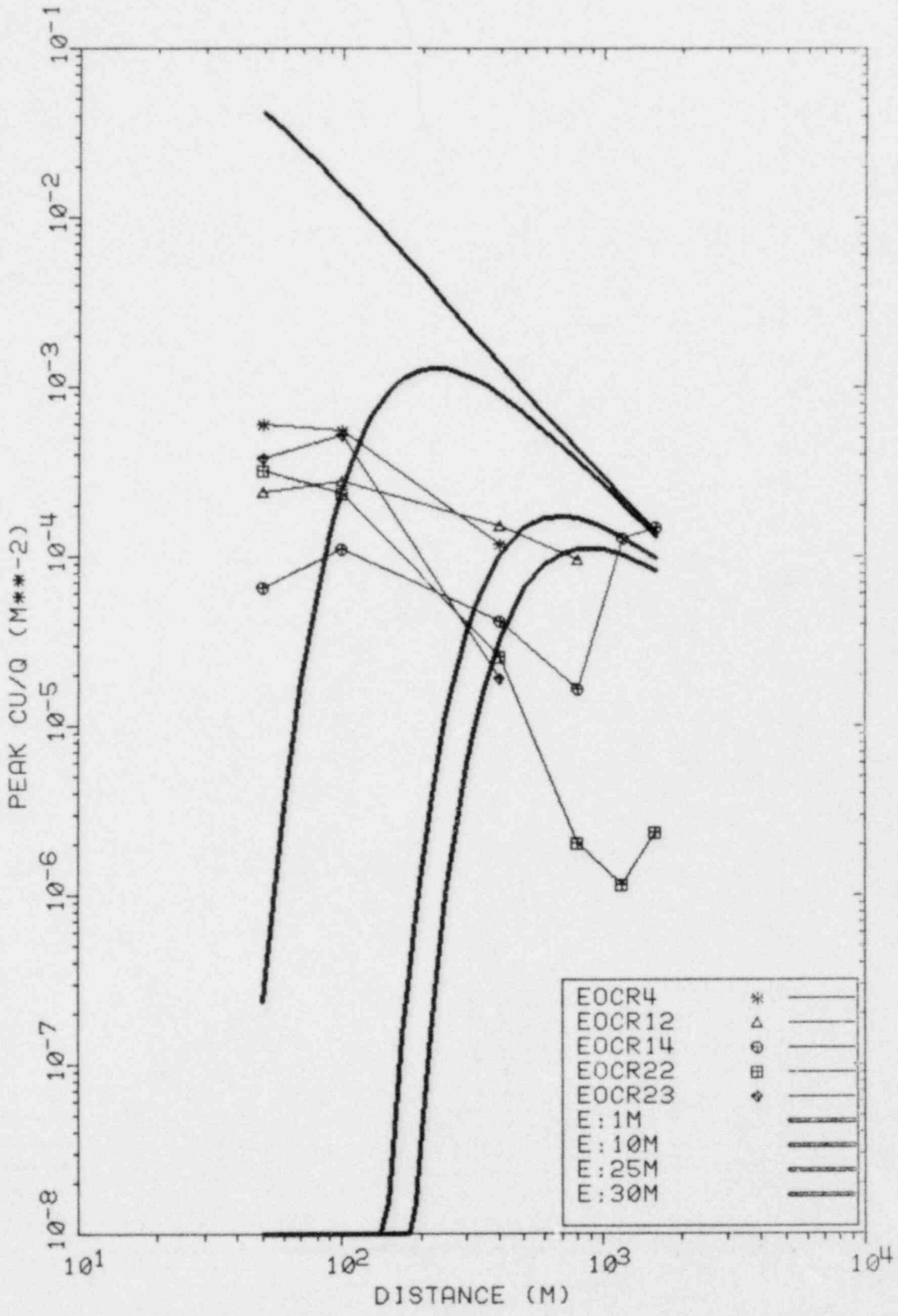

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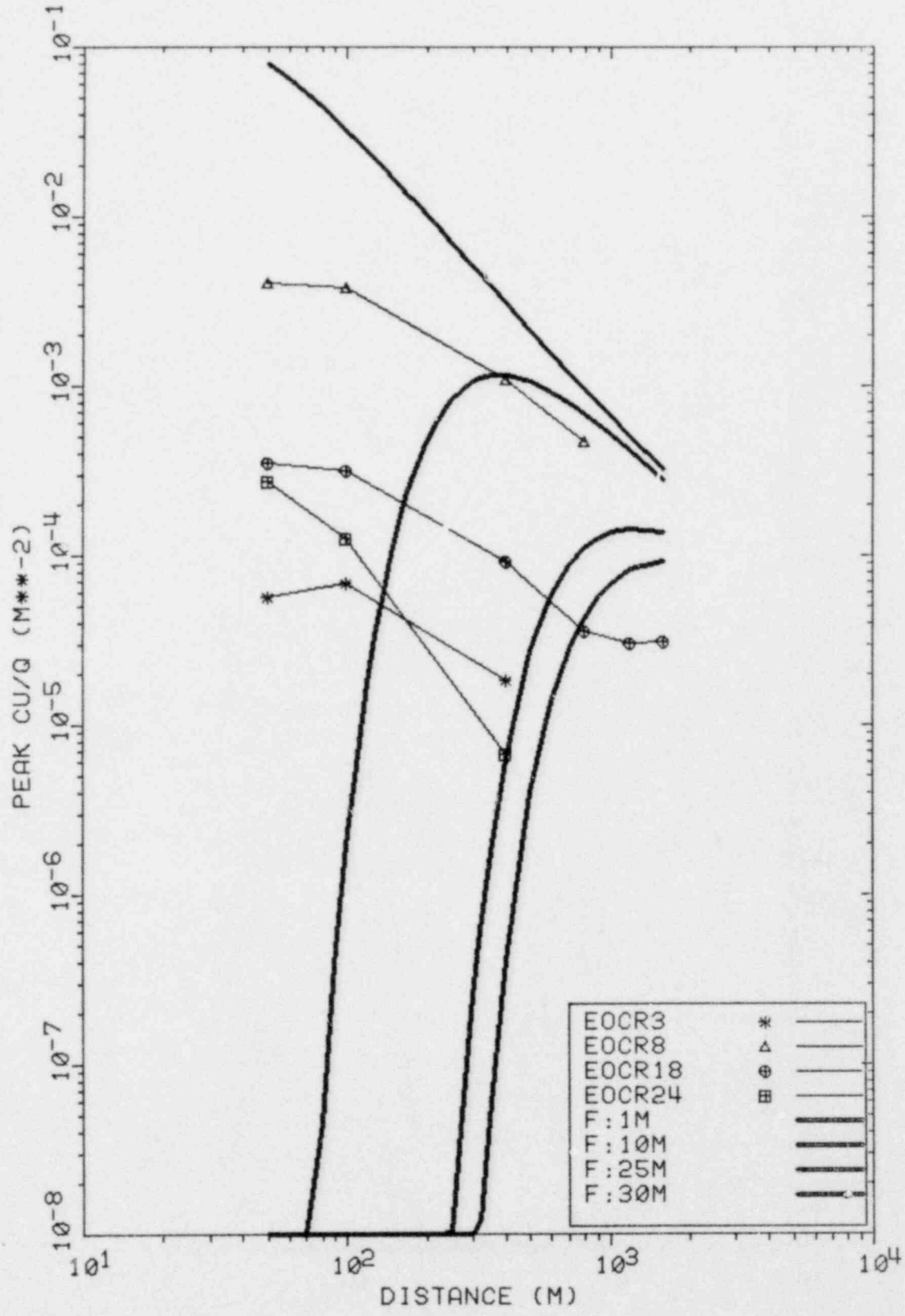

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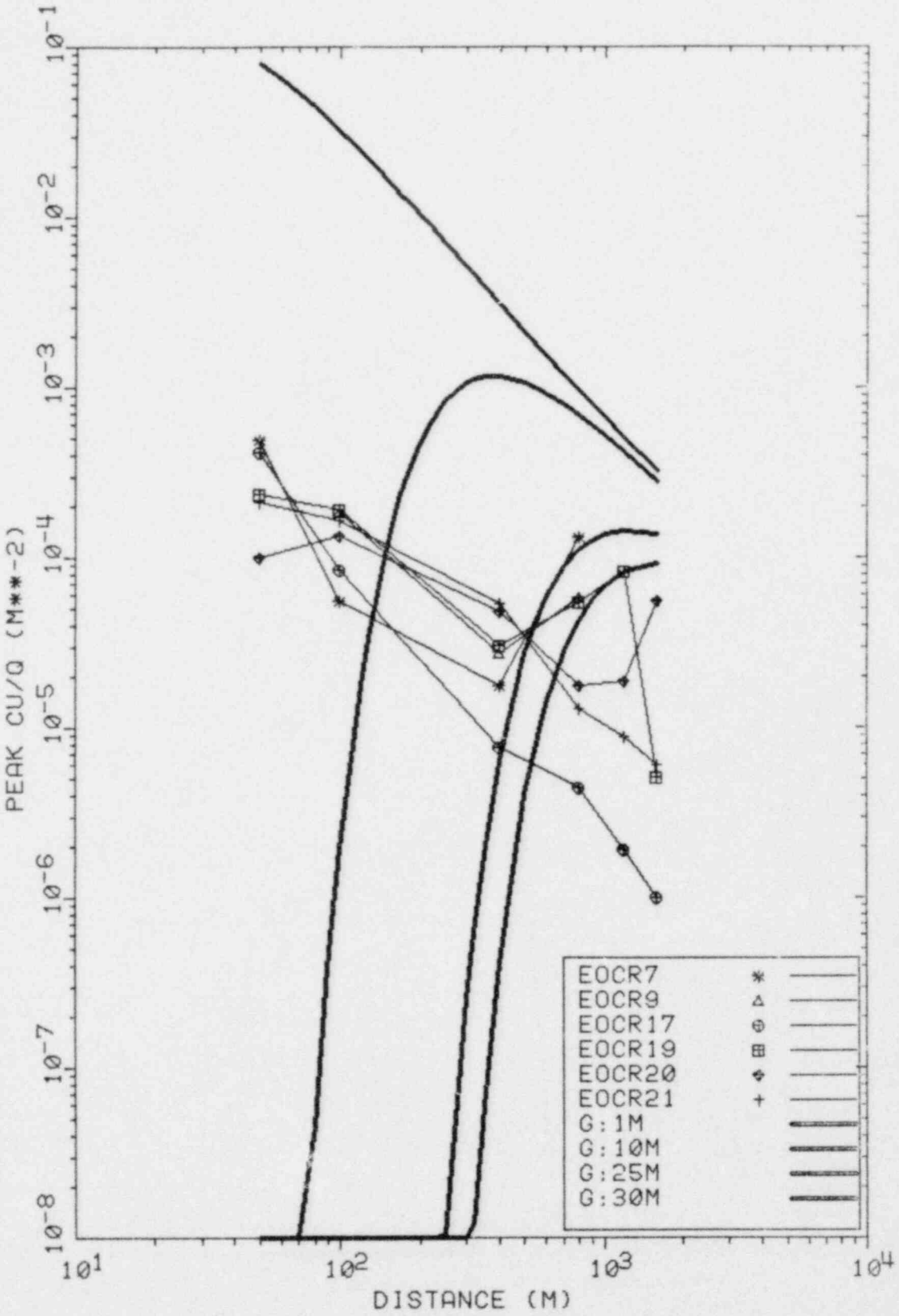

ROOF RELEASE
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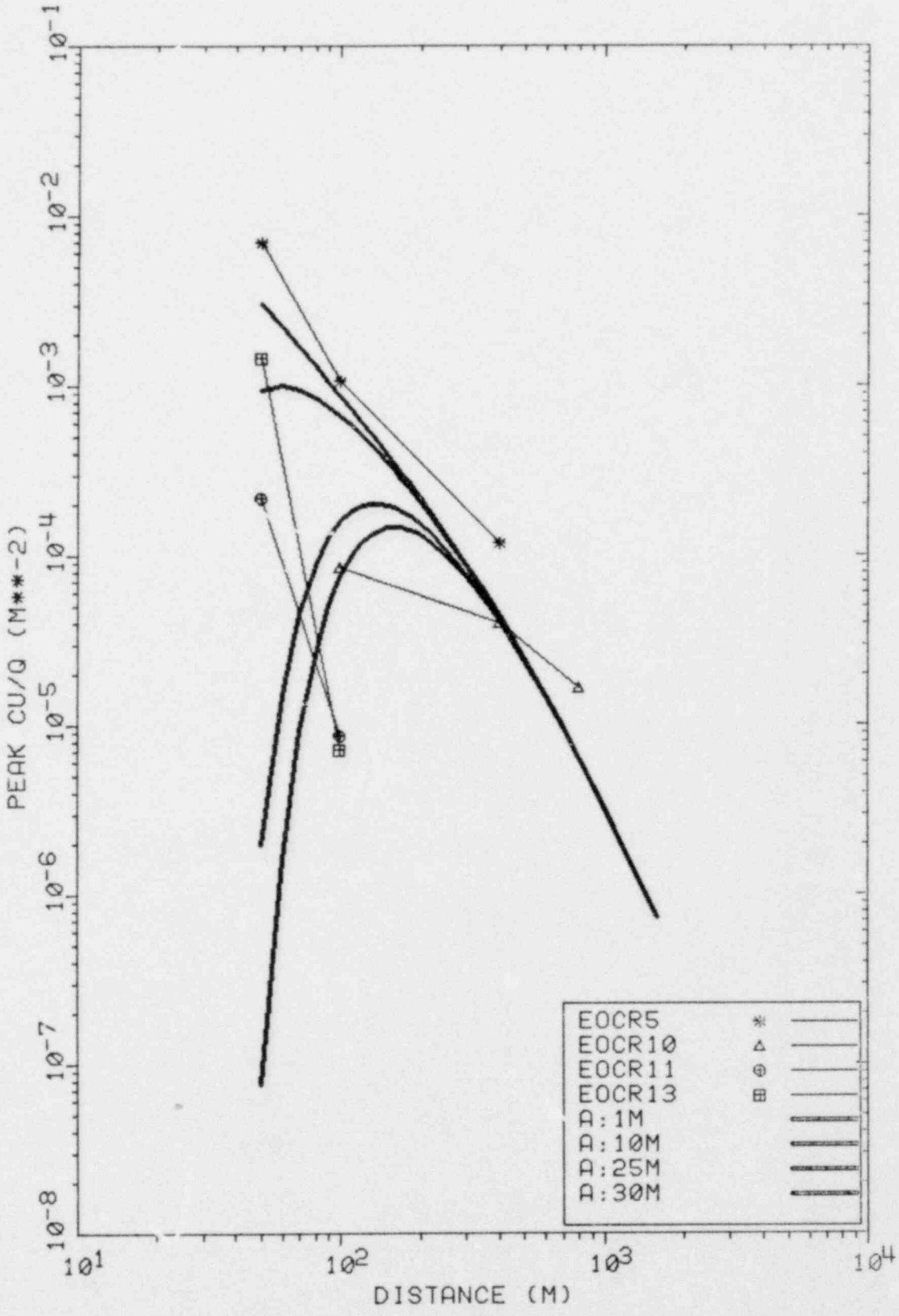

GROUND RELEASE
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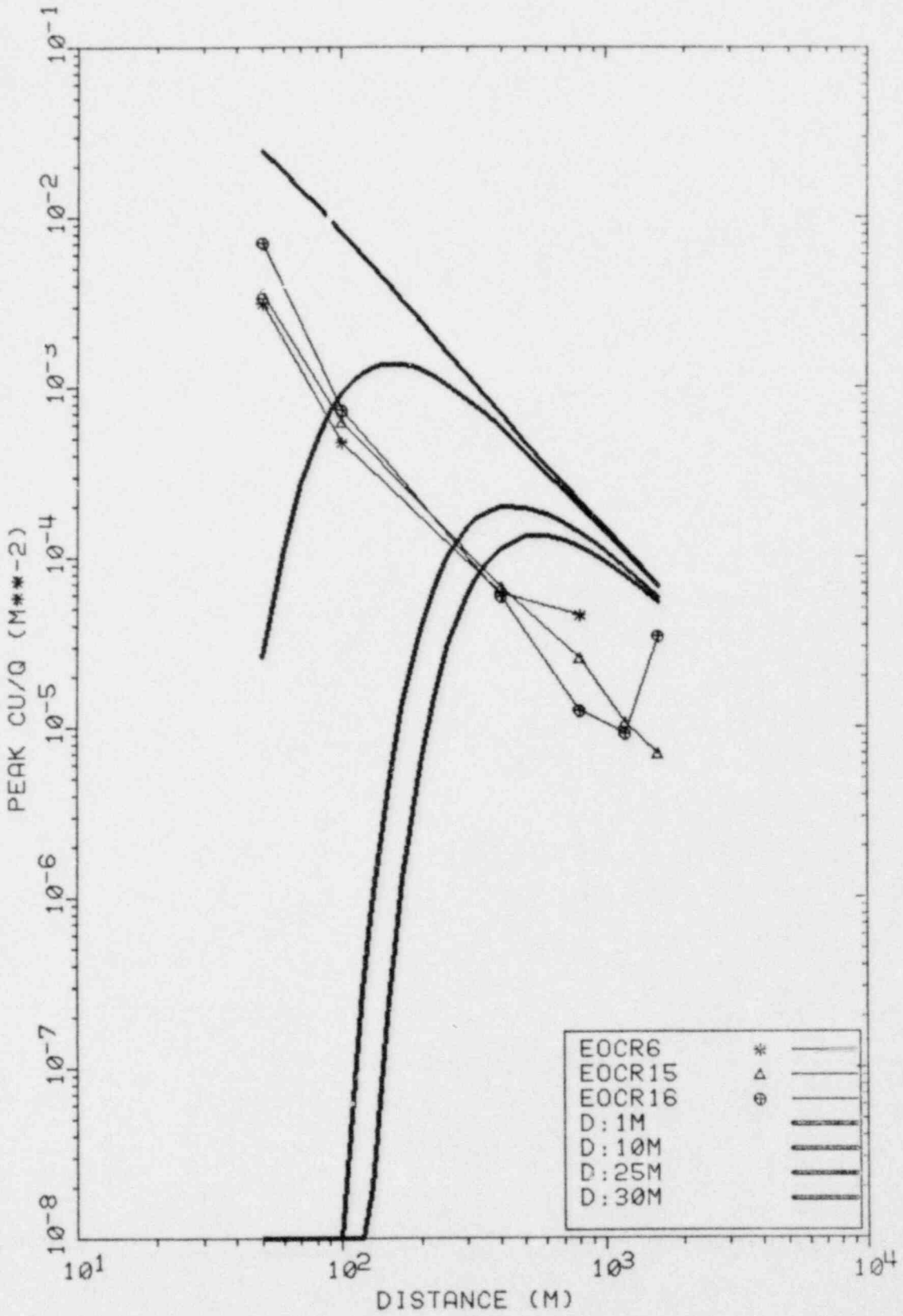

GROUND RELEASE
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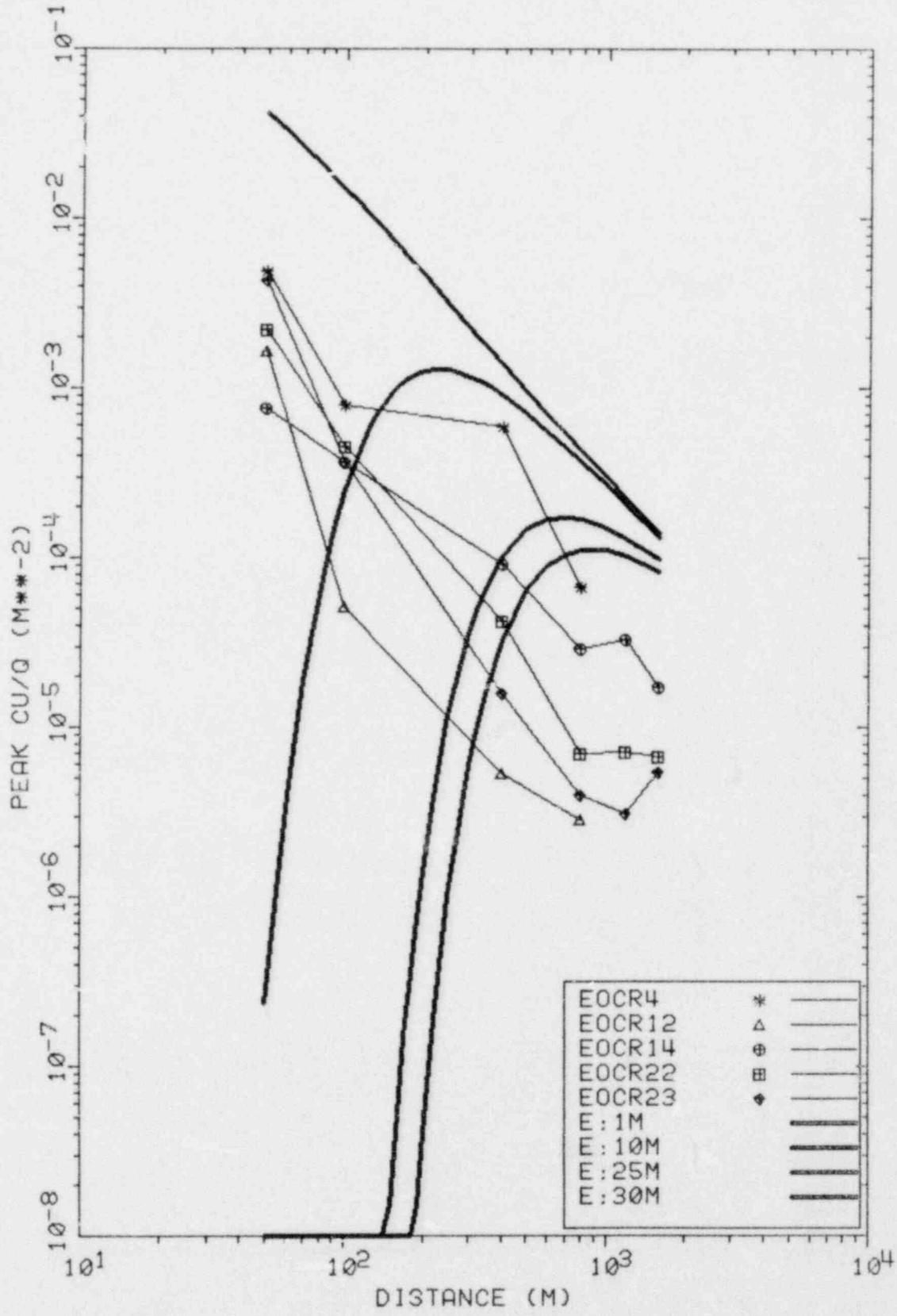

GROUND RELEASE
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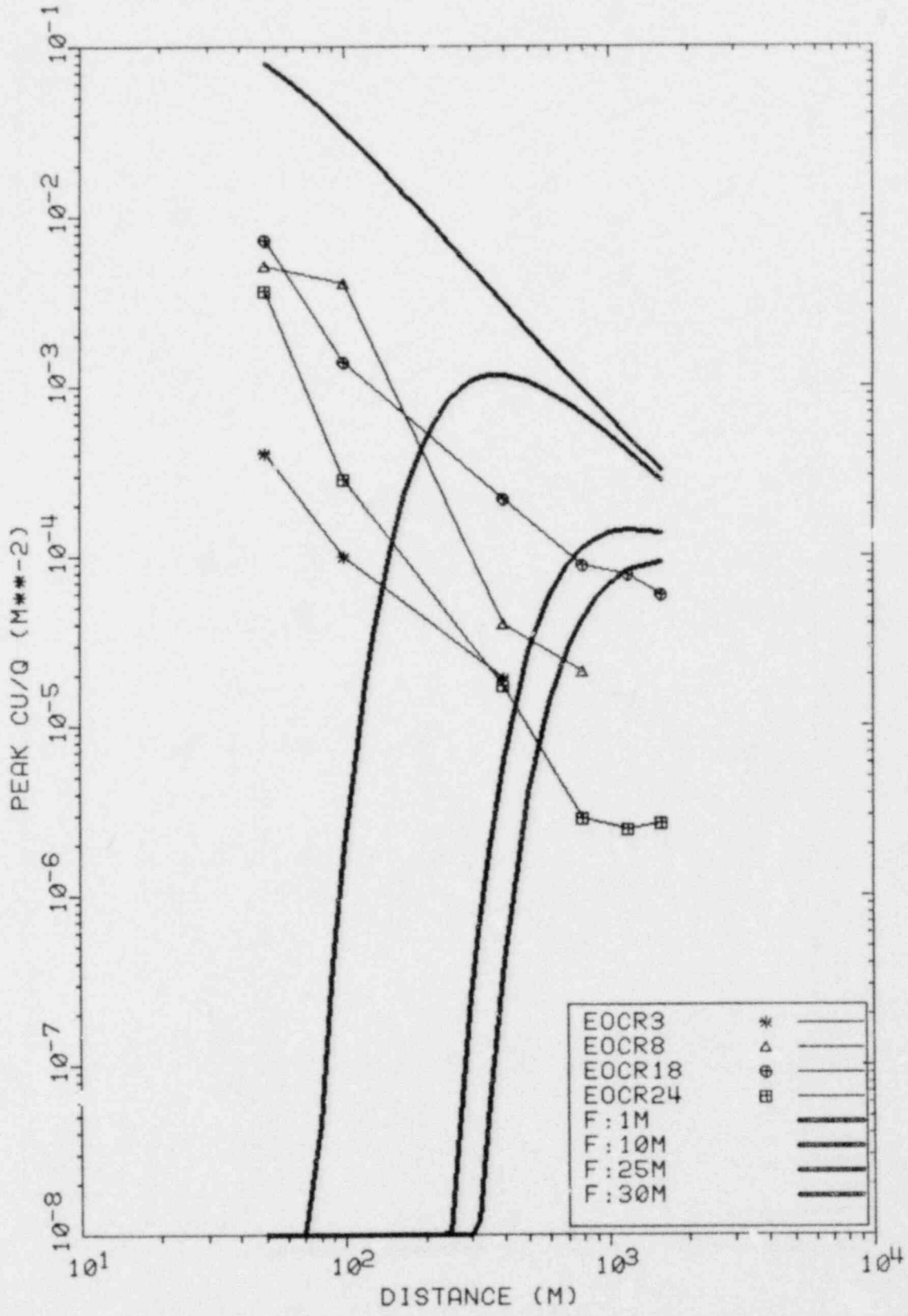

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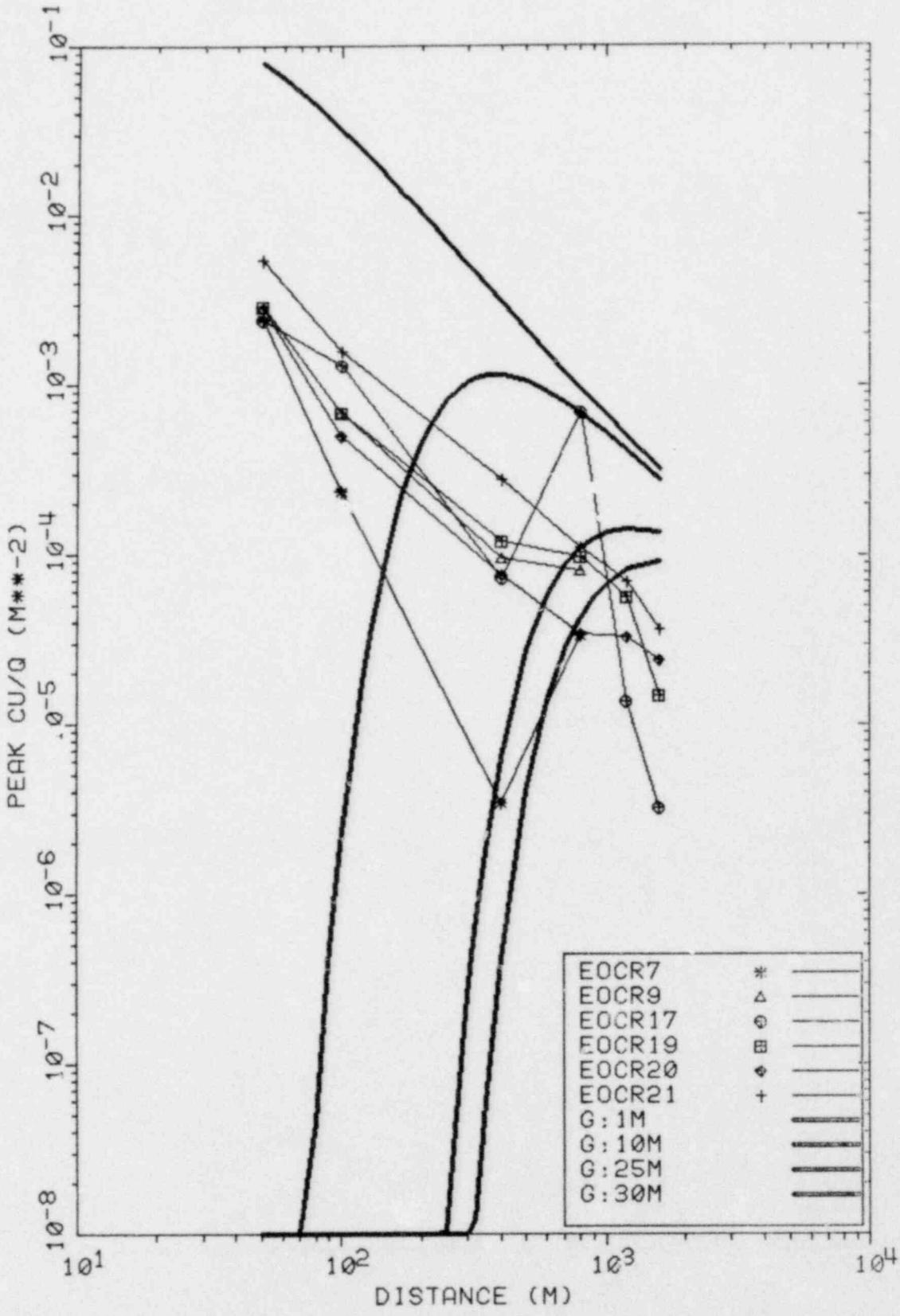

GROUND RELEASE
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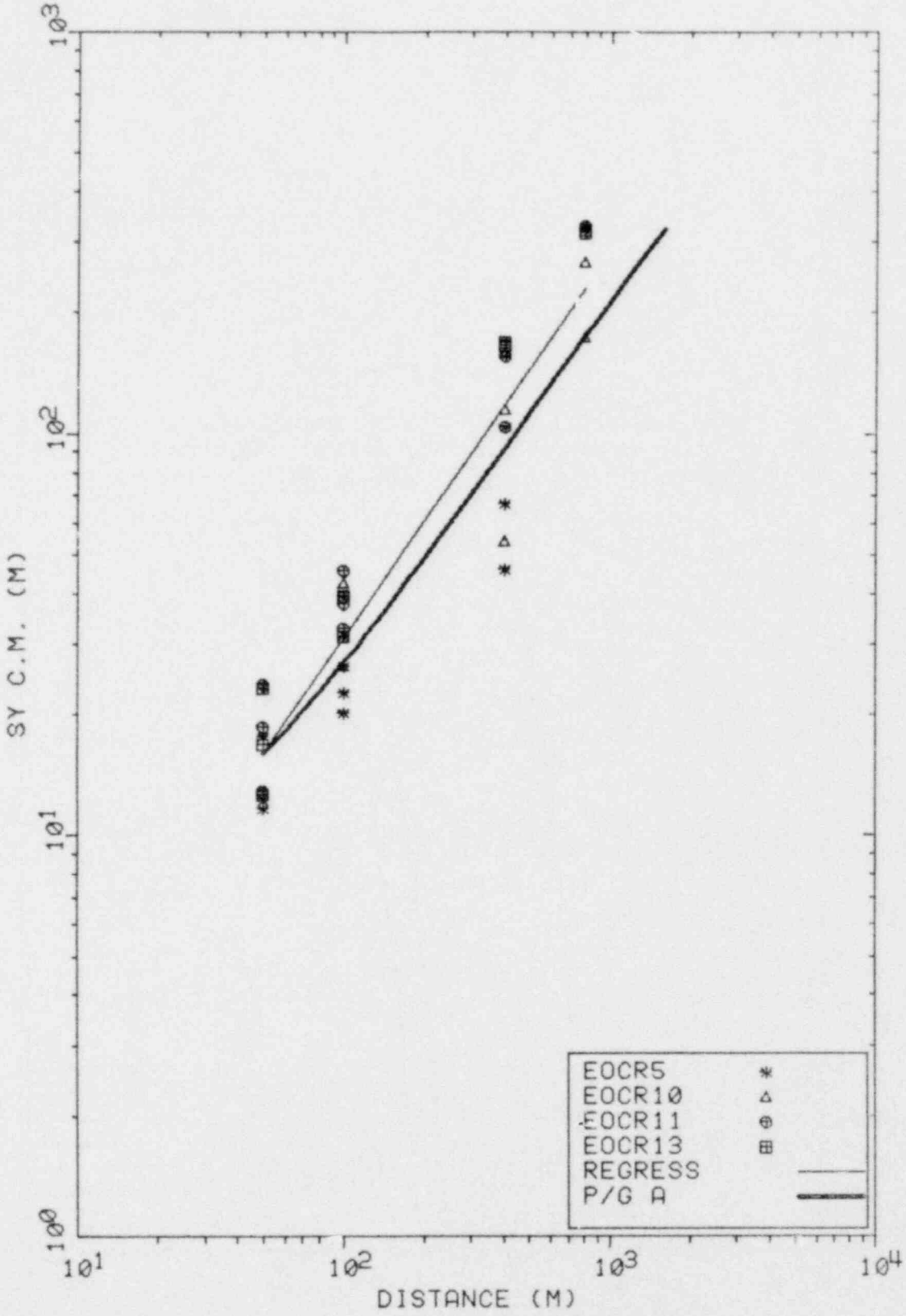

ALL RELEASES
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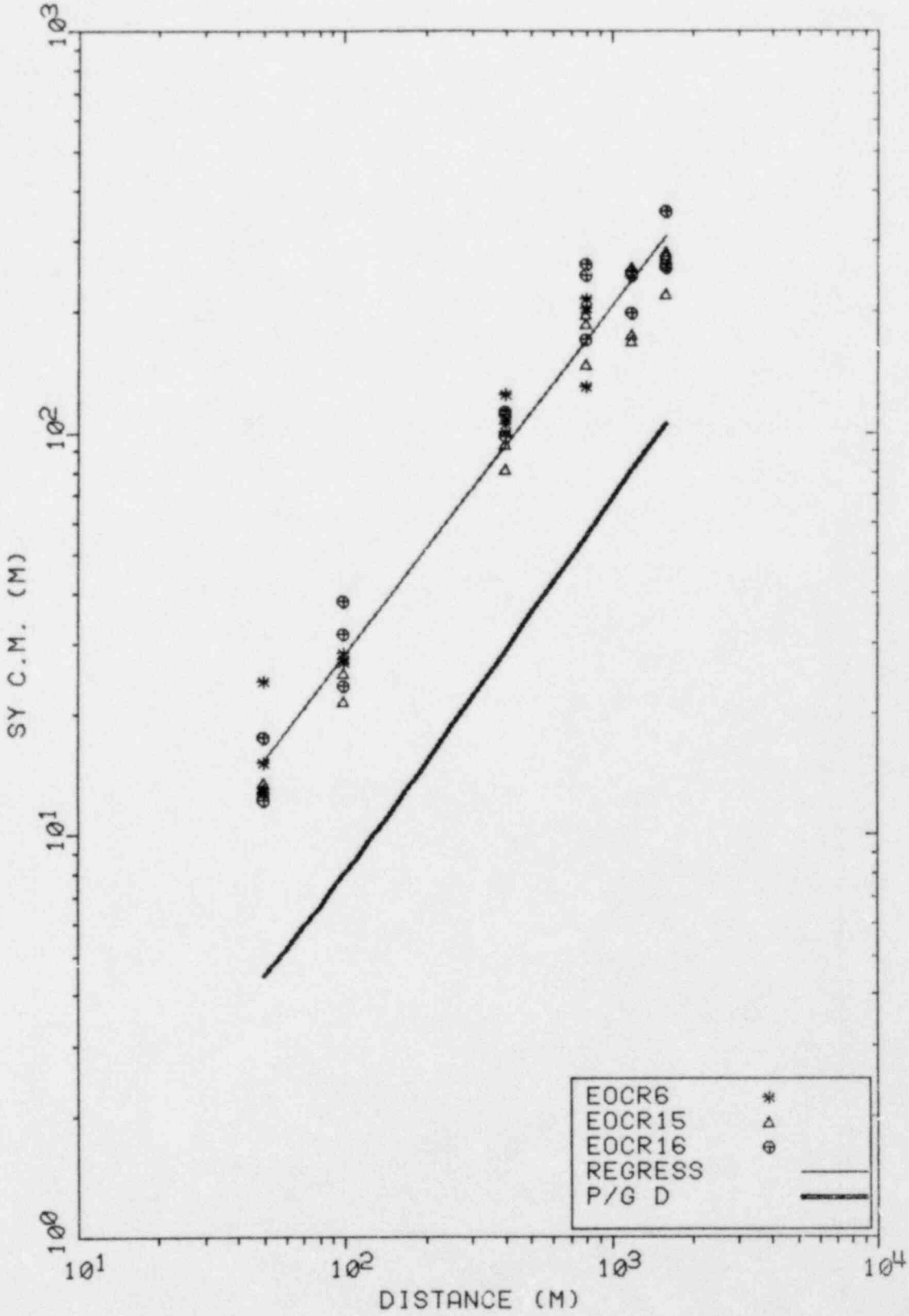

ALL RELEASES
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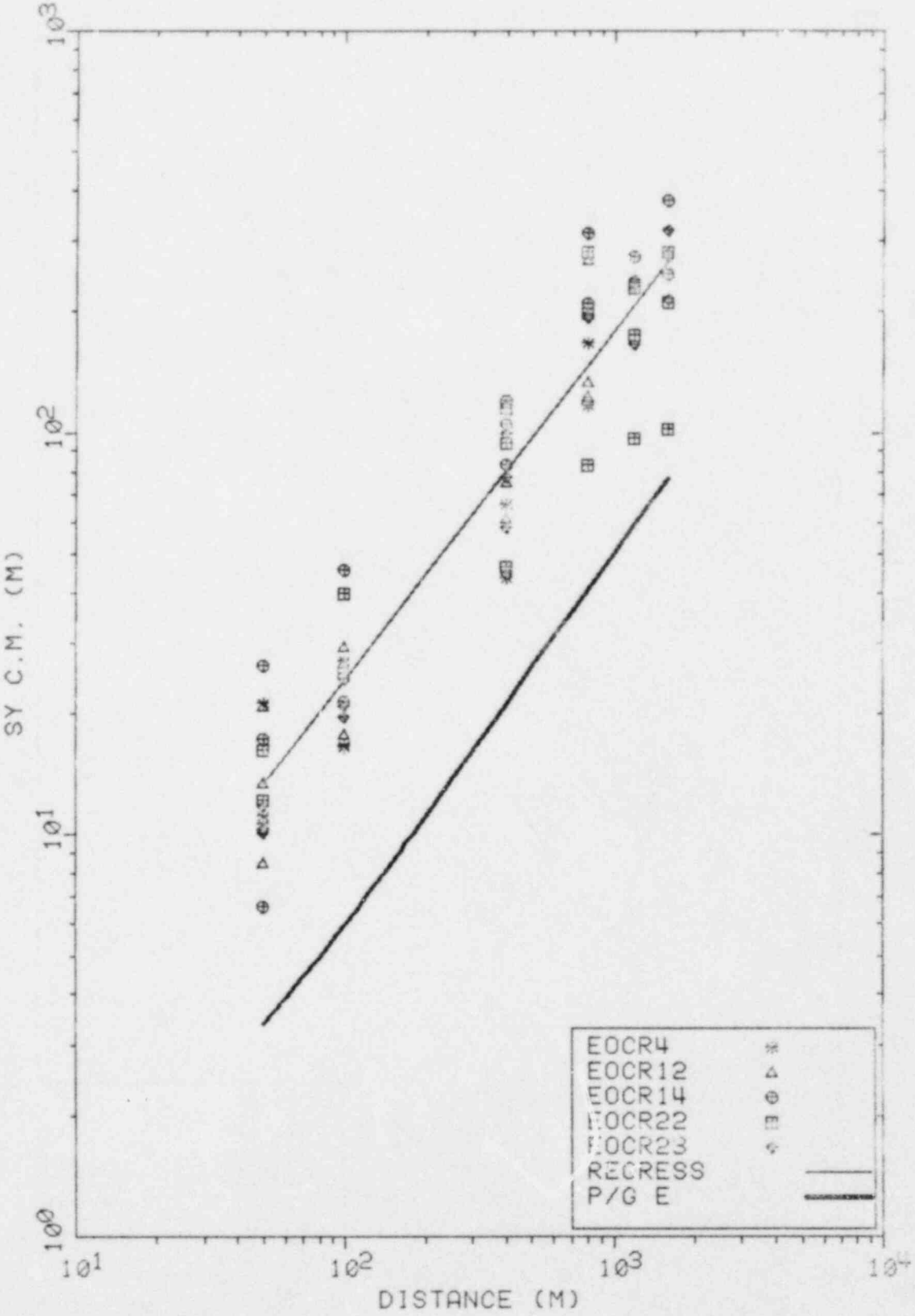

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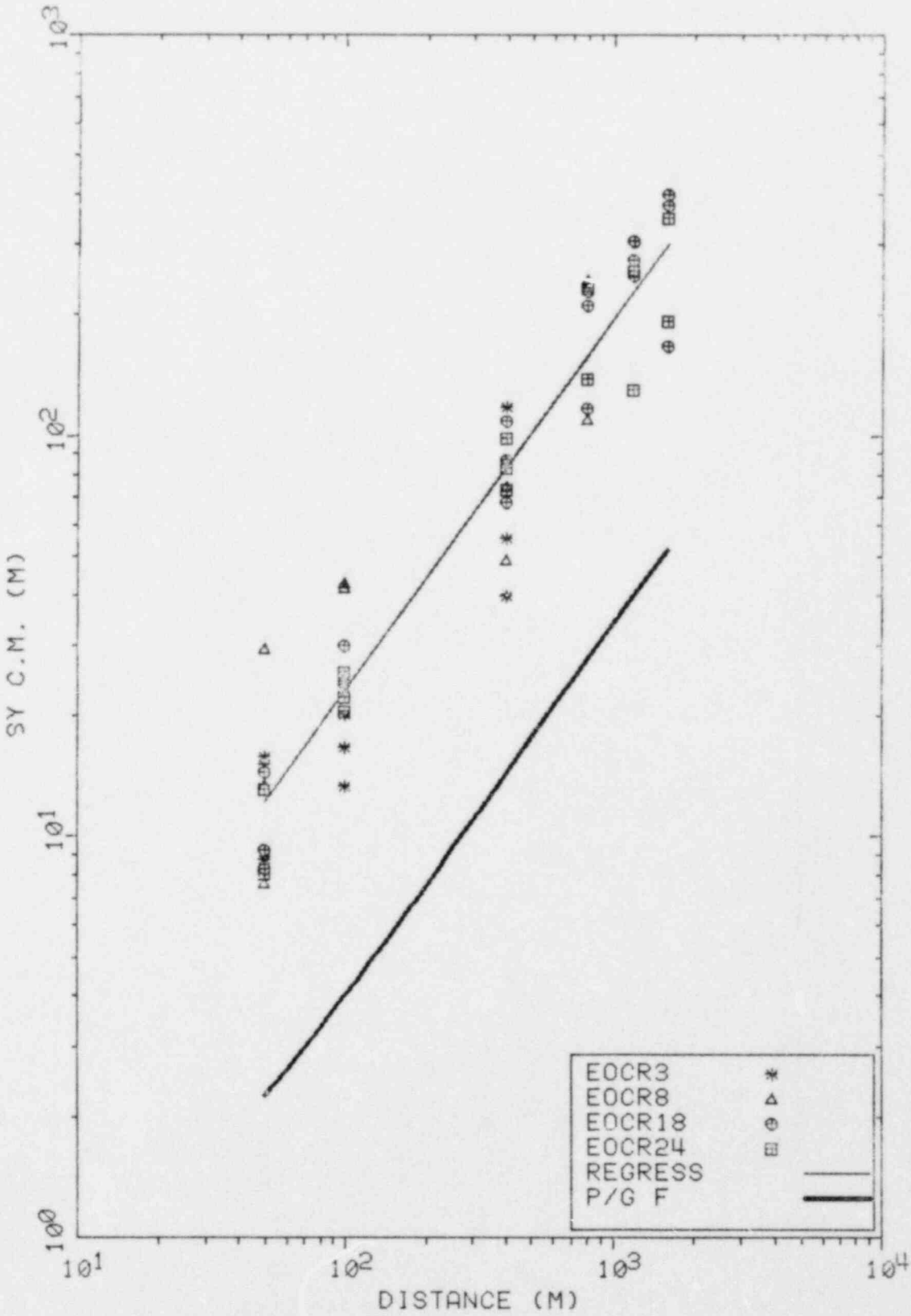

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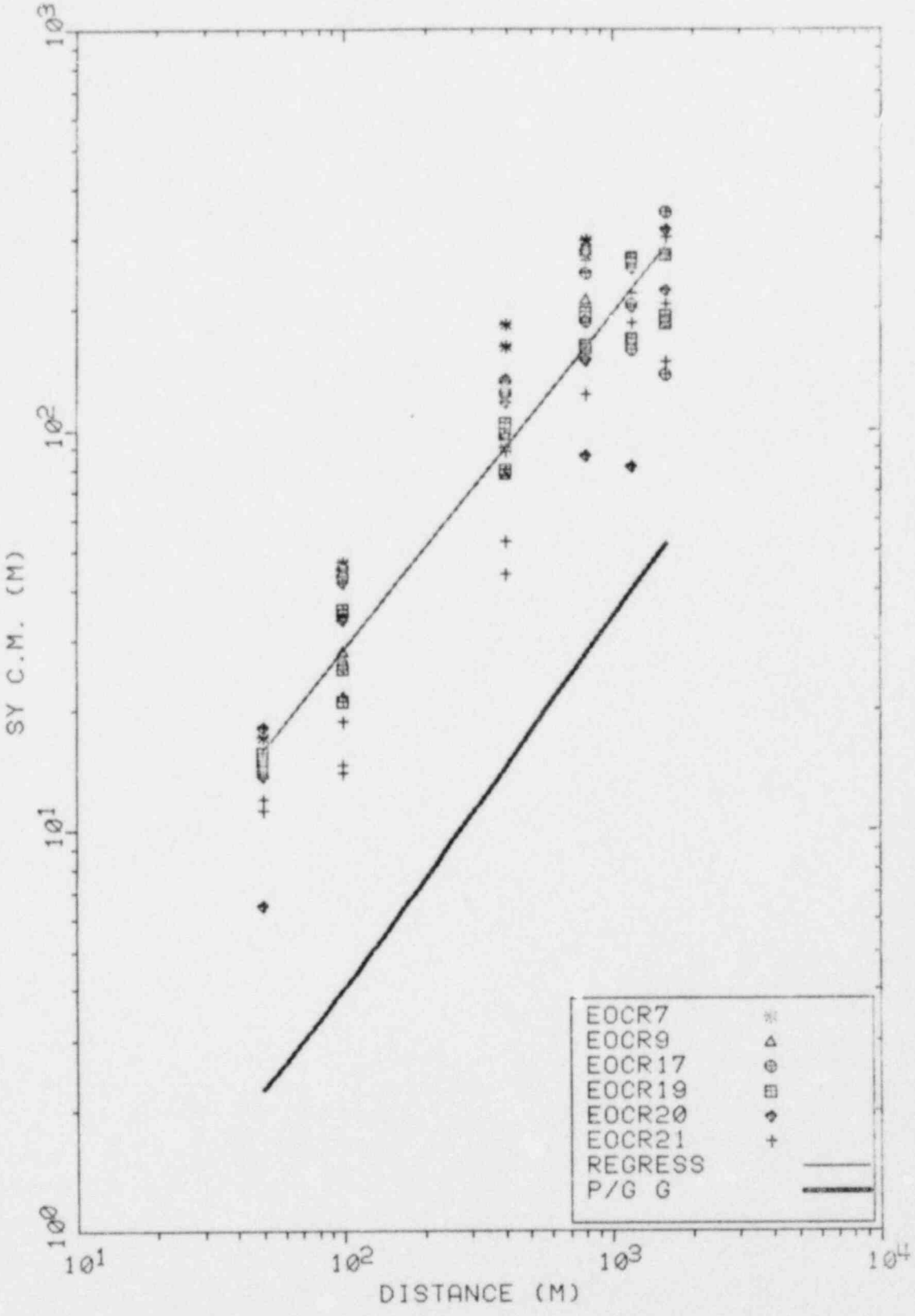

ALL RELEASES
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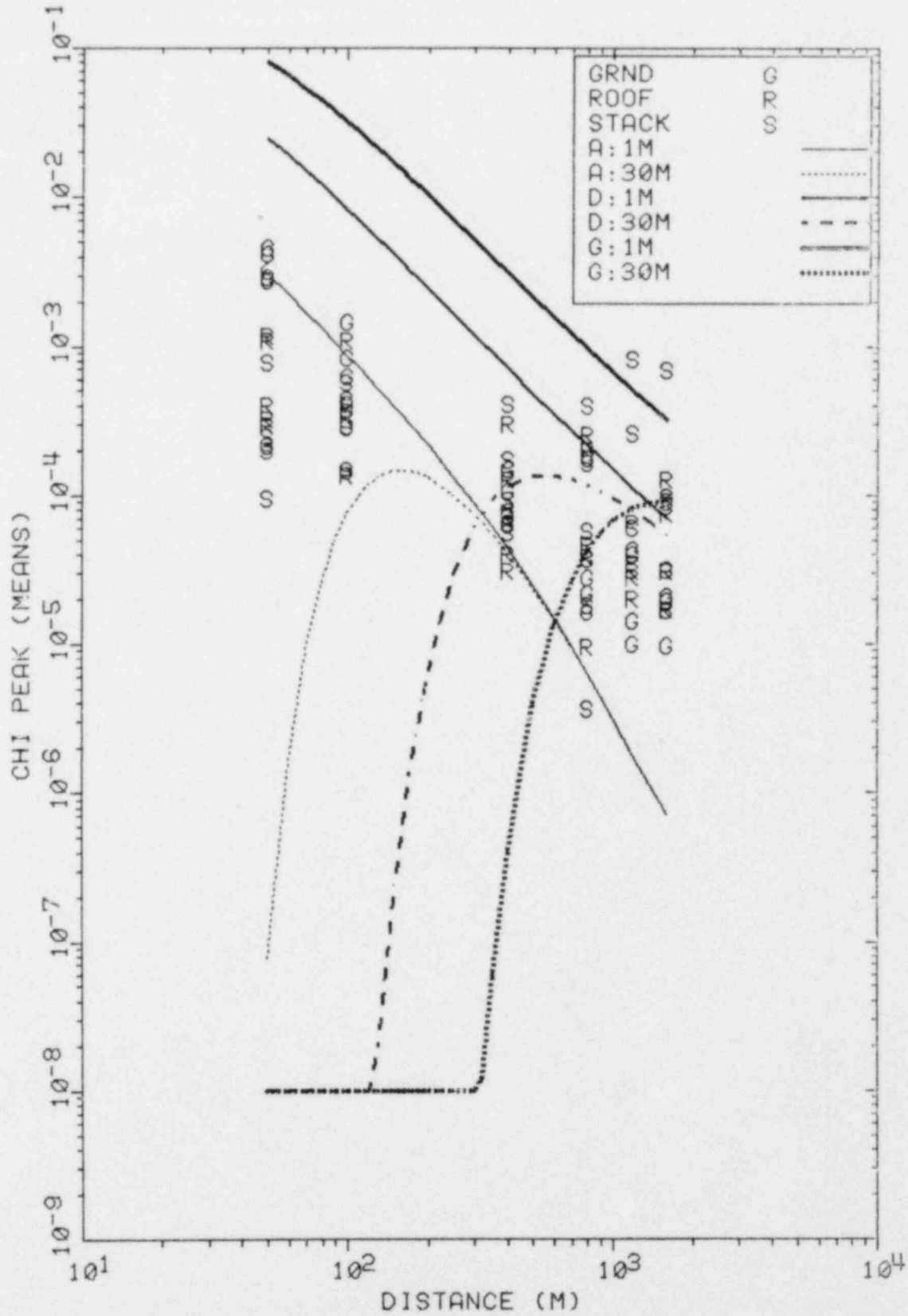
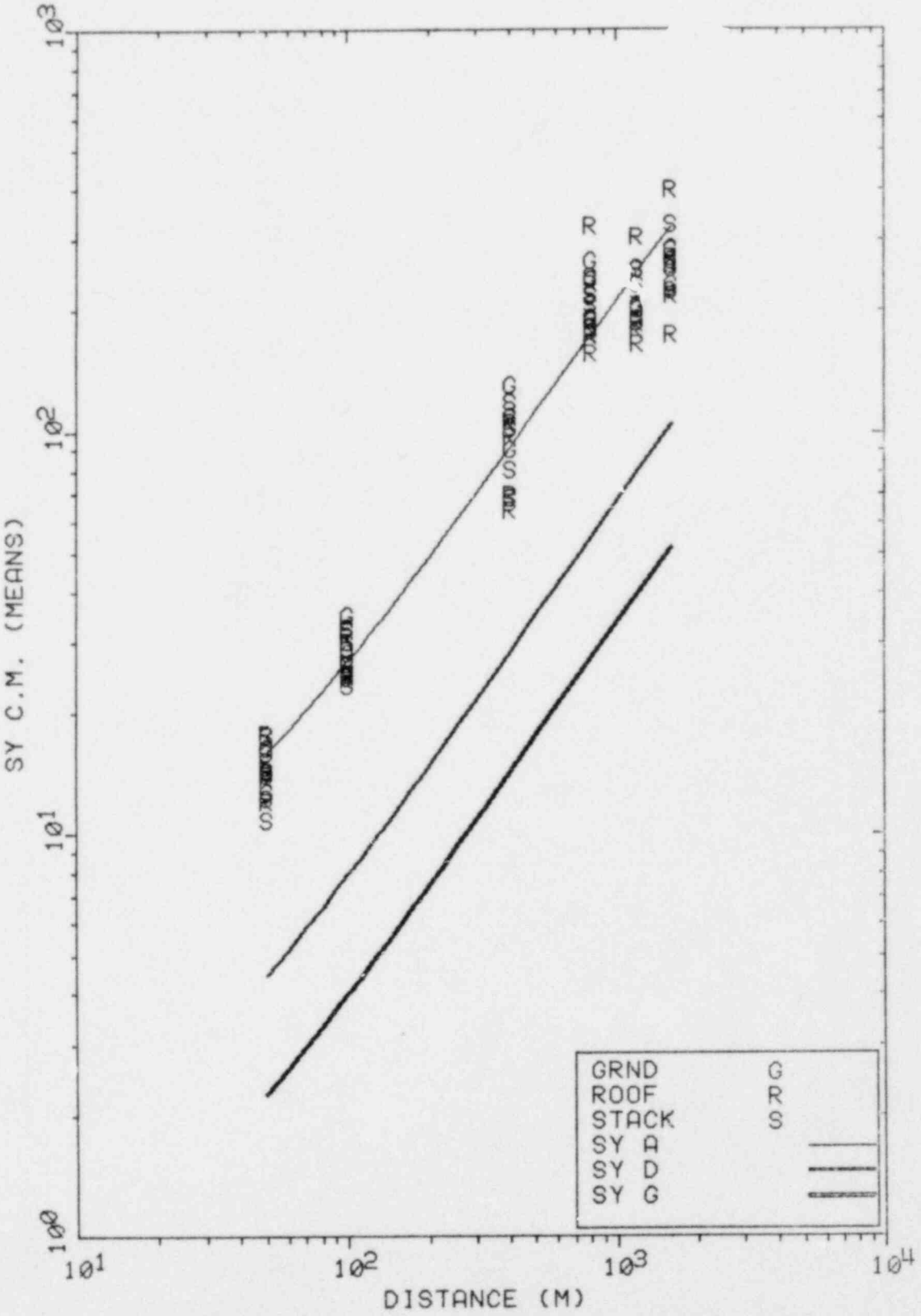
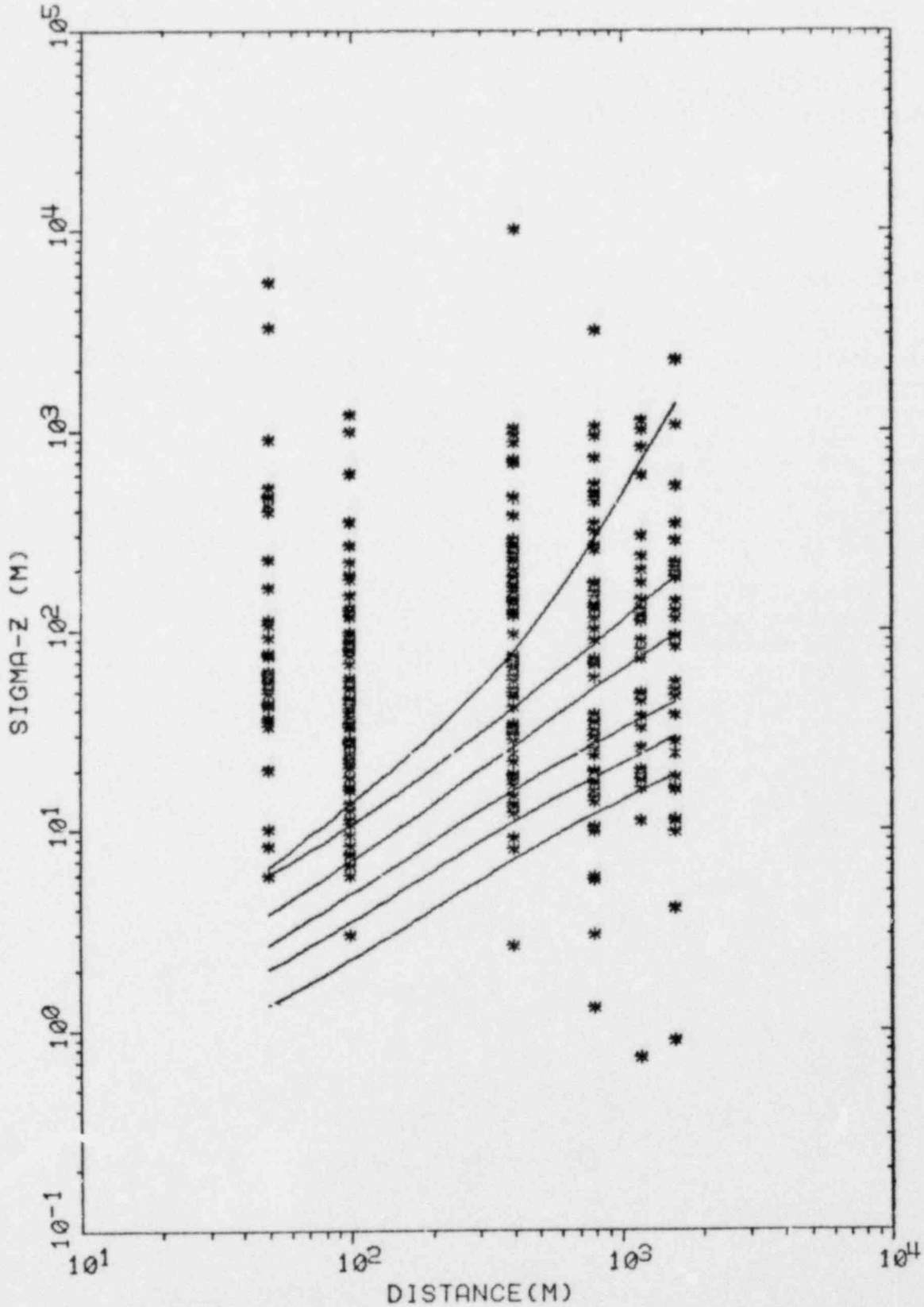


CHI PEAK (MEANS) FOR ALL RELEASES
ALL TESTS INCLUDED 11/24/78



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


SIGMA-Z (M)
DISTANCE(M)
10^{-1}
10^{0}
10^{1}
10^{2}
10^{3}
10^{4}
10^{5}
10^{1}
10^{2}
10^{3}
10^{4}

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

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

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 drosswind integrated concentration g/m^2.

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 Chi u/Q (m^{-2}) at ground-level.[1]

RATIO C Ratio of P-G value of maximum Chi u/Q divided by the observed value.[2]

1 Estimated ground-level normalized concentration values were calculated using eqn. (2) with y=o. 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 $5x10^{-12}m^{-2}$. Equation (2) values were about $4x10^{-29}$ 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) 2/26/79

VARIABLE LABELS...

	IDENT SZ EFF LOWER RATIO SZ	STAB 1-7 CIC NORM UPPER CHI PG	HI PEAK SY SY PG RATIO C	SY C.M. RLSE HT RATIO SY	C.M. DW@(M) SZ PG
1	311.00 510.52 10.779 6.4282	6.0000 1.53879E-03 317.65 1.83267E-11	3.24691E-05 29.896 2.4710 3.10059E-07	15.198 30.000 6.1584	3.1323 50.000 1.2881
2	321.00 269.10 12.834 5.3552	6.0000 2.96505E-03 267.41 3.14563E-12	7.76979E-05 15.614 4.6218 4.84754E-08	16.677 30.000 9.6096	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 40.340 16.161 5.25619E-03	55.402 30.000 3.4295	25.296 400.00 6.8947
4	411.00 78.207 17.256 9.8741	5.0000 1.82023E-02 /.641 4.79883E-12	1.86754E-04 14.871 3.5799 2.56917E-09	11.168 30.000 3.1196	3.8831 50.000 1.9817
5	421.00 45.199 27.413 7.8565	5.0000 1.76327E-02 27.415 1.39828E-12	4.31344E-04 15.741 6.6947 3.24168E-09	16.798 30.000 2.5065	6.3203 100.00 3.4894
6	431.00 28.466 17.266 1.5754	5.0000 2.48239E-02 17.266 2.68718E-05	2.46480E-04 33.772 23.413 0.12208	43.659 30.000 1.8648	25.844 400.00 10.360
7	441.00 31.541 19.131 1.8446	5.0000 2.52964E-02 19.131 1.[illegible]E-04	9.81725E-05 117.64 43.784 1.1537	117.57 30.000 2.6852	47.021 000.00 18.315

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(35) GRND ROOT(LOWER) 2/26/79

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. DW@(M) SZ PG
15	711.80 51.986 24.448 26.373	7.0000 1.53710E-02 30.009 2.72261E-11	3.93790E-04 56.590 1.7056 5.64416E-08	13.975 30.000 8.1935	1.5460 50.000 6.86165
16	721.80 94.619 15.878 18.972	7.0000 8.43263E-03 85.443 7.87654E-12	1.15403E-04 100.73 3.1896 6.15335E-09	45.289 30.000 14.174	6.1787 100.00 1.6472
17	731.80 690.99 10.358 2.3861	7.0000 1.15467E-03 690.24 9.83784E-13	8.35563E-06 514.52 11.155 1.17729E-07	192.88 30.000 16.388	28.939 400.00 4.3375
18	741.80 114.64 14.835 1.9679	7.0000 6.95970E-03 110.48 8.34195E-07	9.81683E-06 539.86 20.869 9.25235E-02	283.11 30.000 13.572	49.176 000.00 7.5384
19	611.80 61.275 20.887 15.692	6.0000 1.38214E-02 51.826 1.83267E-11	1.99704E-04 32.393 2.4718 5.17183E-08	13.534 30.000 5.4769	2.1946 50.000 1.2861
20	621.80 56.337 28.974 9.3335	6.0000 1.36272E-02 47.974 3.14563E-12	2.47513E-04 56.469 4.6218 1.27098E-08	24.326 30.000 5.3729	4.4886 100.00 2.2472
21	631.80 378.86 11.326 1.6427	6.0000 2.11835E-03 376.85 2.63512E-07	1.46631E-05 92.625 16.161 1.79564E-02	49.288 30.000 3.8494	12.903 400.00 6.8947

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/26/79

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. DW@(M) SZ PG
8	511.00 8.3686 5.8758 0.67915	1.0000 9.53432E-02 5.8758 1.22784E-06	2.29838E-03 10.629 12.519 5.38098E-04	12.246 30.000 0.57815	2.4216 50.000 7.4737
9	521.00 6.6168 3.6494 0.25521	1.0000 0.13261 3.6494 1.86152E-04	1.97887E-03 25.349 23.412 5.36438E-02	22.670 30.000 0.96831	5.6062 100.00 14.380
10	531.00 22.237 13.487 0.16167	1.0000 3.58817E-02 13.487 4.36738E-05	1.85082E-04 75.082 61.977 0.23499	67.292 30.000 0.82186	23.862 400.00 93.425
11	611.00 42.231 25.651 10.344	4.0000 1.88665E-02 25.651 2.61641E-12	3.20823E-04 31.558 5.8145 8.15538E-03	15.117 30.000 3.8028	2.3093 50.000 2.4798
12	621.00 20.151 17.874 3.7478	4.0000 2.83438E-02 17.874 6.33819E-12	3.24693E-04 68.048 9.4148 1.94968E-09	27.294 30.000 2.9990	4.7449 100.00 4.5569
13	631.00 24.838 14.588 0.94710	4.0000 3.31920E-02 14.588 9.45872E-05	6.52222E-05 252.09 32.026 1.4588	105.38 30.000 3.2884	19.613 400.00 15.394
14	641.00 35.389 21.465 6.60831	4.0000 2.25460E-02 21.465 1.62861E-04	2.61298E-05 423.47 61.573 3.9360	283.73 30.000 3.3087	42.673 000.00 26.555

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/26/79

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. DW@(M) SZ PG
22	841.00 1845.5 9.8184 0.83561	6.0000 7.63125E-04 1845.1 3.51158E-05	2.14782E-06 111.18 38.222 16.357	118.19 30.000 3.6461	47.571 000.00 11.758
23	921.00 34.563 20.927 14.461	7.0000 2.31251E-02 20.927 7.87554E-12	2.69016E-04 42.387 3.1996 2.62176E-09	21.627 30.000 6.7683	3.9166 100.00 1.4472
24	931.00 69.844 10.348 4.2388	7.0000 1.14238E-02 62.166 9.63784E-13	3.05852E-05 287.01 11.155 2.55474E-08	98.052 30.000 8.7981	20.646 400.00 4.3375
25	941.00 59.857 28.799 2.7591	7.0000 1.35564E-02 48.673 8.34195E-07	2.35526E-05 455.41 20.868 3.54184E-02	138.97 30.000 9.1545	37.228 000.00 7.5384
26	921.0 48.436 24.525 1.7151	1.0000 1.97823E-02 24.525 1.86152E-04	2.39543E-04 56.648 27.412 8.44314	31.165 30.000 1.3311	5.6188 100.00 14.380
27	1031.0 157.28 13.548 0.16239	1.0000 5.07305E-03 154.34 4.36739E-07	1.99417E-05 206.47 91.877 2.1984	114.92 30.000 1.4836	24.821 400.00 83.425
28	1041.0 486.82 10.954 3.72567E-02	1.0000 1.71213E-03 465.85 7.83418E-06	2.81364E-06 389.48 153.12 2.5000	174.45 30.000 1.1394	34.443 000.00 214.88

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	1.0000	3.59822E-06	23.678	3.0114
	3280.9	2.41192E-04	61.900	30.000	50.000
	6.7102	3280.9	12.519	1.0913	7.4737
	1.1654	1.22784E-05	0.34181		
30	1121.0	1.0000	5.32849E-06	45.645	5.5550
	1280.4	6.64675E-04	134.51	30.000	100.00
	9.6599	1280.0	23.412	1.3501	14.300
	0.67553	1.06152E-04	19.322		
31	1131.0	1.0000	1.73158E-07	103.90	19.057
	10225.	7.60337E-05	250.47	30.000	400.00
	7.9264	10225.	81.877	1.2609	83.425
	5.50123E-02	4.36798E-05	252.25		
32	1211.0	5.0000	8.56208E-06	8.5647	3.2600
	5606.2	1.42323E-04	7.5724	30.000	50.000
	8.3113	5606.1	3.5799	2.3924	1.9017
	4.3704	4.79883E-12	5.35323E-07		
33	1221.0	5.0000	3.24214E-05	17.052	6.5132
	1802.7	7.95719E-04	12.334	30.000	100.00
	9.8690	1802.3	6.6947	2.5666	3.4894
	2.8200	1.79828E-12	4.31203E-08		
34	1231.0	5.0000	2.87845E-05	61.149	25.725
	271.-	2.93733E-03	46.383	30.000	400.00
	12.8'2	269.96	23.413	2.6119	10.960
	1.0961	3.00718E-05	1.4402		
35	1241.0	5.0000	2.18386E-05	133.81	52.407
	171.02	4.64363E-03	144.42	30.000	800.00
	13.252	169.14	43.704	3.0561	10.315
	0.72359	1.04036E-04	4.7629		

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	1.0000	5.16883E-05	16.814	2.3216
	425.03	1.87726E-03	42.518	30.000	50.000
	11.113	423.96	12.519	1.3430	7.4737
	1.4869	1.22704E-06	2.37760E-02		
37	1321.0	1.0000	4.75670E-05	31.366	4.3207
	221.03	3.59605E-03	51.631	30.000	100.00
	12.510	219.77	23.412	1.3327	14.300
	0.87485	1.06152E-04	2.2387		
38	1331.0	1.0000	2.00926E-05	169.85	23.191
	464.31	1.71844E-03	301.60	30.000	400.00
	10.960	463.33	81.877	2.0744	83.425
	0.13137	4.36738E-05	2.1739		
39	1341.0	1.0000	4.40834E-06	316.23	39.014
	314.38	2.53795E-03	1137.2	30.000	800.00
	11.692	312.94	153.12	2.0653	294.00
	3.97694E-02	7.03418E-06	1.5672		
40	1412.0	5.0000	3.67125E-04	26.534	3.1727
	35.216	2.26539E-02	86.195	30.000	50.000
	21.368	21.368	3.5799	7.4120	1.9017
	11.232	4.79883E-12	1.30692E-08		
41	1422.0	5.0000	1.39761E-03	45.753	6.5678
	7.6165	0.10476	99.505	30.000	100.00
	4.6196	4.6196	6.6947	6.8342	3.4894
	1.3239	1.35628E-12	1.15789E-05		
42	1432.0	5.0000	1.70943E-03	104.77	19.376
	2.6664	0.25924	286.36	30.000	400.00
	1.6172	1.6172	23.413	4.4747	10.960
	0.14756	3.00718E-05	1.75912E-02		

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	5.0000	6.25512E-04	314.90	56.379
	2.9986	0.21609	450.09	30.000	800.00
	1.0189	1.0189	43.794	7.1923	10.315
	9.93066E-02	1.04036E-04	0.16632		
44	1452.0	5.0000	2.22767E-03	232.04	32.260
	0.73563	1.0940	710.39	30.000	1200.0
	0.44618	0.44618	63.145	3.6747	24.501
	1.02187E-02	9.77637E-05	4.36616E-02		
45	1462.0	5.0000	2.03123E-03	380.65	54.913
	0.88990	0.89660	1031.7	30.000	1600.0
	0.53975	0.53975	81.879	4.6489	29.866
	1.00722E-02	7.85964E-05	3.86941E-0[illegible]		
46	1512.0	4.0000	1.73795E-04	13.520	2.2654
	56.929	1.48155E-02	34.557	30.000	50.000
	21.494	46.833	5.8345	2.6856	2.4790
	0.5677	2.61641E-12	1.58546E-09		
47	1522.0	4.0000	3.82694E-04	25.252	5.6402
	28.259	2.82349E-02	34.224	30.000	100.00
	17.140	17.140	9.4148	2.6822	4.5560
	..7614	6.33019E-12	1.65411E-08		
48	1532.0	4.0000	1.17609E-04	100.41	22.883
	33.851	2.41411E-02	105.19	30.000	400.00
	20.046	20.045	32.926	3.2927	15.334
	1.3022	9.45872E-05	0.60423		
49	1542.0	4.0000	4.47653E-05	197.82	40.753
	20.004	3.58865E-02	379.40	30.000	800.00
	12.133	12.132	61.573	3.2120	26.555
	0.45690	1.02861E-04	2.2970		

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	4.0000	5.16494E-05	298.56	30.440
	16.434	4.85498E-02	637.60	30.000	1200.0
	9.9679	9.9679	68.082	2.9116	35.091
	0.27773	7.84172E-05	1.3634		
51	1562.0	4.0000	4.83578E-05	276.77	39.420
	18.555	4.38816E-02	881.29	30.000	1600.0
	11.254	11.254	115.15	2.4036	43.715
	0.25744	4.99620E-05	1.0322		
52	1622.0	4.0000	5.17164E-04	39.192	5.9118
	20.403	3.69531E-02	61.160	30.000	100.00
	12.424	12.424	9.4148	4.0565	4.5560
	2.7264	6.33019E-12	1.22432E-08		
53	1632.0	4.0000	9.26206E-05	97.609	21.539
	32.020	2.49183E-02	183.52	30.000	400.00
	19.421	19.421	32.926	2.9645	15.394
	1.2616	9.45872E-05	1.0211		
54	1642.0	4.0000	9.92351E-05	262.01	60.160
	19.660	4.05838E-02	347.61	30.000	800.00
	11.925	11.925	61.573	4.2553	26.555
	0.44365	1.02861E-04	1.0565		
55	1652.0	4.0000	6.76893E-05	251.15	37.344
	18.094	4.40971E-02	582.04	30.000	1200.0
	10.974	10.974	88.082	2.8283	35.091
	0.39577	7.84172E-05	1.0483		
56	1662.0	4.0000	1.30959E-04	257.29	36.671
	11.384	7.00096E-02	757.30	30.000	1600.0
	6.9046	6.9046	115.15	2.2244	43.715
	0.15795	4.99620E-05	0.30151		

EDCR 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. INDX(M) SZ PG
57 1722.0	7.0000	1.00620E-03	45.112	6.5410
24.148	3.38517E-02	168.58	30.000	100.00
14.642	14.642	3.1896	13.916	1.4472
10.119	7.87654E-12	7.83290E-09		
58 1732.8	7.0000	6.25072E-04	123.38	20.366
8.1678	9.76962E-02	329.68	30.000	400.00
4.3535	4.9535	11.155	11.061	4.3375
1.1420	9.83704E-13	1.57174E-09		
59 1742.8	7.0000	1.69329E-03	246.53	40.640
1.2993	0.61411	18.75	30.000	800.00
0.78804	0.78804	20.860	11.918	7.5384
0.16454	0.34195E-07	4.92650E-04		
60 1752.8	7.0000	9.23289E-04	206.35	32.287
11.289	7.11826E-02	394.29	30.000	1200.0
6.7986	6.7986	30.805	6.8589	10.545
0.64478	1.58991E-05	1.96046E-02		
61 1762.8	7.0000	2.38035E-04	187.52	29.053
11.153	7.15371E-02	694.41	30.000	1600.0
6.7649	6.7649	39.811	4.9068	12.746
0.53073	4.80835E-05	0.17091		
62 1812.0	6.0000	5.50151E-05	8.3324	2.9306
399.06	1.99933E-03	10.465	30.000	50.000
1.226	397.94	2.4710	3.3771	1.2981
0.7296	1.83267E-11	1.87780E-07		
63 1822.0	6.0000	1.28368E-04	30.837	6.5051
60.886	1.15827E-02	46.604	30.000	100.00
19.502	61.851	4.6218	6.5002	2.2472
6.2334	3.14563E-12	2.48937E-08		

EDCR 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. INDX(M) SZ PG
64 1832.0	6.0000	1.81392E-04	87.833	25.684
33.691	2.[illegible]430E-02	88.892	30.000	400.00
20.556	16.356	16.161	5.3855	6.8947
2.9814	2.63912E-07	1.45493E-03		
65 1842.0	6.0000	4.28648E-05	229.31	59.424
38.183	2.89404E-02	294.64	30.000	800.00
23.118	23.118	30.222	7.5877	11.750
1.9669	3.51190E-05	0.83498		
66 1852.0	6.0000	6.85939E-05	251.53	46.766
28.389	3.92872E-02	480.12	30.000	1200.0
12.318	12.318	43.506	5.7710	16.874
0.76634	7.99947E-05	1.3202		
67 1862.0	6.0000	1.19955E-05	168.25	40.618
92.364	8.63[illegible]E-03	251.72	30.000	1600.0
16.838	87.837	56.517	2.9769	19.511
0.[illegible]157	9.66741E-05	7.3523		
68 1922.0	7.0000	8.73192E-05	36.000	5.6534
88.353	9.92978E-03	72.353	30.000	100.00
17.831	74.815	3.1896	11.297	1.4472
11.769	7.87654E-12	8.18422E-08		
69 1932.0	7.0000	5.66644E-05	183.94	23.815
68.655	1.16217E-02	192.97	30.000	400.00
10.548	68.788	11.155	9.3175	4.3375
4.2744	9.83704E-13	1.73682E-09		
70 1942.0	7.0000	3.83733E-04	196.34	39.305
14.083	5.69801E-02	439.68	30.000	800.00
8.4932	8.4932	20.860	9.4119	7.5384
1.1267	8.34195E-07	2.74656E-03		

EDCR 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. INDX(M) SZ PG
71 1952.0	7.0000	2.72024E-05	267.00	43.547
40.410	1.64816E-02	496.25	30.000	1200.0
29.362	29.362	30.805	9.9016	10.545
2.7044	1.98991E-05	0.66535		
72 1962.0	7.0000	4.67886E-05	185.14	37.119
185.41	4.38341E-03	413.01	30.000	1600.0
13.015	182.91	39.811	4.7459	12.746
1.0211	4.86835E-05	8.6367		
73 2012.0	7.0000	4.35961E-05	6.5296	3.2260
987.27	8.79432E-04	5.0520	30.000	50.000
9.9902	986.70	1.7856	3.0203	0.86165
11.594	2.27951E-11	5.89819E-07		
74 2022.0	7.0000	1.27750E-04	33.540	5.8462
82.250	9.69988E-03	181.99	30.000	100.00
16.046	76.109	3.1896	10.515	1.4472
11.648	7.87654E-12	5.53936L-08		
75 2032.0	7.0000	7.48429E-05	117.33	24.374
49.117	1.62445E-02	240.68	30.000	400.00
29.791	29.791	11.155	10.518	4.3375
6.8683	9.83704E-13	1.32856E-08		
76 2042.0	7.0000	3.00362E-05	149.54	64.747
155.96	5.11608E-03	93.668	30.030	800.00
13.577	152.99	20.860	7.1684	7.5384
1.8011	8.34195E-07	2.77729E-02		
77 2052.0	7.0000	4.01275E-05	282.45	38.195
37.345	2.13654E-02	614.79	30.000	1200.0
22.651	22.651	30.805	6.7294	10.545
2.1488	1.98991E-05	0.45184		

EDCR 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. INDX(M) SZ PG
78 2062.0	7.0000	8.28846E-05	222.94	31.753
16.395	4.86673E-02	770.33	30.000	1600.0
9.9439	9.9439	39.811	5.7140	12.746
0.78014	4.86835E-05	0.[illegible]985		
79 2112.0	7.0000	2.02781E-04	12.817	3.4648
226.65	3.52038E-03	17.779	30.000	50.000
12.454	224.63	1.7856	7.0457	0.86165
14.454	2.22261E-11	1.09650E-07		
80 2122.0	7.0000	1.10361E-04	14.568	2.3486
[illegible].64	6.35065E-03	45.145	30.000	100.00
] 417	121.89	3.1896	4.5672	1.4472
9 024	7.87654E-12	6.41217E-08		
81 2132.0	7.0000	2.23189E-04	89.847	13.021
] 174	6.05657E-02	300.82	30.000	400.00
.9984	7.9984	11.155	[illegible].9828	4.3375
. 8422	9.83704E-13	4.48751E-09		
82 2142.0	7.0000	3.08647E-04	247.95	37.704
9.9334	8.[illegible]232E-02	763.03	30.000	800.00
6.8249	6.8249	20.860	11.886	7.5384
0.79923	8.34195E-07	2.78275E-03		
83 2152.0	7.0000	3.63634E-05	218.71	29.910
25.981	3.88058E-02	724.74	30.000	1200.0
15.718	15.718	30.805	7.2698	10.545
1.4898	1.88991E-05	0.49773		
84 2162.0	7.0000	6.58564E-05	382.68	42.065
15.934	5.80736E-02	939.96	30.000	1600.0
9.6646	9.6646	39.811	7.7509	12.746
0.75823	4.86835E-05	0.61776		

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. D&D(M) SZ PG
85	2222.8	5.0000	2.48742E-04	25.324	4.1828
	51.337	3.55422E-02	67.564	30.000	100.00
	26.827	36.854	6.6947	3.7676	3.4894
	7.1723	1.39628E-12	5.02028E-09		
86	2232.8	5.0000	6.24653E-05	94.259	16.139
	29.657	2.67231E-02	243.54	30.000	400.00
	18.189	18.109	23.413	4.8068	18.568
	1.6524	3.86718E-05	0.48148		
87	2242.8	5.0000	5.59538E-05	291.78	49.585
	23.721	2.36363E-02	721.35	30.000	800.00
	14.387	14.387	43.784	6.4266	18.315
	0.70558	1.84836E-04	1.7351		
88	2252.8	5.0000	1.77437E-04	238.17	34.348
	19.337	4.12671E-02	556.43	30.000	1200.0
	11.728	11.728	63.145	8.6457	24.581
	0.47968	9.72637E-05	0.54816		
89	2262.8	5.0000	4.75717E-05	282.90	42.290
	24.312	3.23558E-02	889.13	30.000	1600.0
	14.685	14.685	91.879	3.4552	29.866
	0.49171	7.85964E-05	1.6522		
90	2312.8	5.0000	2.35678E-04	18.148	2.7385
	186.77	7.47324E-03	12.483	30.000	50.000
	15.191	182.27	3.5799	2.0324	1.9817
	7.5683	4.74881E-12	2.83591E		
91	2322.8	5.0000	2.62269E-04	19.271	3.5686
	56.559	1.41870E-02	20.681	30.000	100.00
	21.645	45.516	6.6947	2.9382	3.4894
	6.2823	1.39628E-12	5.33147E-09		

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. D&D(M) SZ PG
92	2332.8	5.0000	1.97810E-05	180.81	23.283
	187.94	4.24549E-03	169.99	30.000	400.00
	12.975	185.59	23.413	4.2716	18.968
	1.1839	3.86718E-05	1.5264		
93	2342.8	5.0000	2.16527E-05	195.74	39.814
	69.845	1.14239E-02	419.59	30.000	800.00
	19.348	67.166	43.784	4.4786	18.315
	1.8019	1.84836E-04	4.8047		
94	2352.8	5.0000	4.46964E-05	240.19	36.713
	44.412	1.75657E-02	537.93	30.000	1200.0
	26.937	26.937	63.145	3.9038	24.581
	1.0994	9.72637E-05	2.1761		
95	2362.8	5.0000	6.36697E-05	320.68	47.134
	129.66	6.54958E-03	838.49	30.000	1600.0
	14.416	121.91	91.879	3.9156	29.866
	0.40278	7.85964E-05	12.344		
96	2422.8	5.0000	1.33567E-04	22.277	6.2939
	60.757	9.64126E-03	25.626	30.006	100.00
	16.759	76.656	6.6218	4.8289	2.2472
	7.4756	3.14503E-12	2.35616E-09		
97	2432.8	5.0000	1.47644E-05	87.604	23.969
	289.77	2.75356F-03	111.58	30.000	400.00
	11.867	288.20	16.161	5.1733	6.0947
	1.7212	2.63912E-07	1.78740E-02		
98	2442.8	5.0000	9.82647E-06	234.42	51.15
	173.66	4.55464E-03	448.10	30.000	800.00
	13.219	171.88	30.922	7.7566	11.758
	1.1258	3.51198E-05	3.5733		

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. D&D(M) SZ PG
99	2452.8	5.0000	8.95613E-06	257.85	36.683
	116.68	6.83142E-03	734.24	30.000	1200.0
	14.746	112.73	43.586	5.8976	16.874
	0.91748	7.99947E-05	8.9318		
100	2462.8	5.0000	2.28308E-05	351.48	54.682
	55.576	1.43567E-02	693.51	30.000	1600.0
	22.879	44.868	56.517	6.2189	19.511
	1.1316	8.86741E-05	4.8037		
101	313.00	5.0000	5.78203E-05	8.7991	2.8007
	469.98	1.69769E-03	10.635	25.000	50.000
	8.8725	469.32	2.4710	3.5609	1.2081
	6.9312	1.83267E-11	1.81107E-07		
102	323.00	5.0000	6.09499E-05	13.353	6.8427
	351.28	2.27186E-03	10.654	25.000	100.00
	9.2729	350.31	4.6210	2.8097	2.2472
	4.1265	3.14563E-12	4.56883E-08		
103	333.00	5.0000	1.84536E-05	39.765	34.206
	723.73	1.18246E-03	28.142	25.000	400.00
	8.3789	723.30	16.161	2.4686	6.0947
	1.2141	4.58638E-06	8.24428		
104	413.00	5.0000	6.05584E-04	18.683	2.8473
	36.556	2.19265E-02	14.338	25.000	50.000
	22.172	22.172	3.5799	3.9641	1.9817
	11.659	4.79883E-12	7.92168E-09		
105	423.00	5.0000	5.55992E-04	16.625	6.2589
	34.280	2.32754E-02	15.864	25.000	100.00
	20.792	20.792	6.6947	2.4833	3.4894
	5.9586	1.39628E-12	2.51493E-09		

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. D&D(M) SZ PG
106	433.00	5.0000	1.19458E-04	45.224	19.146
	46.779	1.78566E-02	48.121	25.000	400.00
	18.188	37.415	23.413	1.9316	18.968
	1.6595	9.35911E-05	8.78346		
107	513.00	1.0000	9.74659E-04	11.697	2.4187
	20.896	3.97801E-02	26.250	25.000	50.000
	12.190	12.190	12.519	0.93429	7.4737
	1.6316	1.38189E-05	1.48399E-02		
108	523.00	1.0000	6.73347E-04	20.222	5.4061
	10.532	4.30546E-02	26.451	25.000	100.00
	11.248	11.248	23.412	0.86374	14.380
	0.78684	2.87274E-04	0.38783		
109	533.00	1.0000	6.23789E-05	46.284	29.138
	121.97	6.54181E-03	33.438	25.000	400.00
	11.505	119.32	81.877	0.56529	83.425
	0.13791	4.45512E-05	8.71438		
110	613.00	4.0000	2.25367E-03	12.724	1.3788
	18.169	7.84616E-02	58.080	25.000	50.000
	6.1679	6.1679	5.8345	2.5274	2.4798
	2.4872	2.61641E-12	1.16885E-09		
111	623.00	4.0000	3.75522E-04	20.348	4.4792
	33.122	2.48098E-02	85.553	25.000	100.00
	20.898	20.898	9.4140	3.8182	4.5568
	4.4897	3.62970E-09	1.81953E-05		
112	633.00	4.0000	2.61059E-05	108.39	21.467
	75.879	1.86272E-02	280.00	25.000	400.00
	13.493	78.584	32.926	3.8489	15.394
	0.87652	1.68563E-04	5.9974		

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/20/79

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	843.00	4.[illegible]	1.37569E-05	138.41	47.509
	15.037	5.[illegible]E-02	144.14	25.000	800.00
	9.6057	9.0057	61.573	2.1179	38.955
	0.36173	1.24973E-04	9.0044		
114	713.00	7.[illegible]	4.94020E-04	14.000	1.6635
	40.750	1.[illegible]534E-02	50.233	25.000	50.000
	17.416	40.216	1.7056	8.6772	0.06165
	20.215	2.22261E-11	4.49984E-08		
115	723.00	7.0000	5.59555E-05	44.964	6.2656
	132.02	6.04354E-03	107.16	25.000	100.00
	11.269	179.59	3.1896	14.097	1.4472
	7.7060	7.07654E-12	1.20497E-07		
116	733.00	7.0000	1.75922E-05	162.34	28.706
	120.33	6.63859E-03	356.04	25.000	400.00
	11.547	117.65	11.155	14.554	4.3375
	2.6621	7.91343E-10	4.40027E-05		
117	743.00	7.0000	1.31975E-04	273.50	47.787
	25.653	3.10953E-02	498.81	25.000	800.00
	15.563	19.563	20.860	13.111	7.5304
	2.0645	9.01421E-06	6.83622E-02		
118	813.00	6.0000	4.04205E-03	[illegible]1.451	3.6903
	5.5716	0.13361	70.710	25.000	50.000
	3.6221	3.6221	2.4710	11.919	1.2001
	2.8296	1.03267E-11	2.55432E-09		
119	823.00	6.0000	3.80696E-02	41.007	4.9573
	3.0502	0.26159	144.26	25.000	100.00
	1.0500	1.0500	4.6210	9.0471	2.2472
	0.02327	3.14563E-12	8.26205E-10		

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/20/79

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	1.0000	1.00513E-04	10.611	2.0972
	113.63	7.02189E-03	73.861	25.000	50.000
	11.731	110.77	12.519	1.4066	7.4737
	1.5697	1.38109E-05	0.12722		
128	1122.0	1.0000	6.75263E-04	37.054	4.0996
	27.544	7.09677E-02	161.37	25.000	100.00
	16.706	16.706	23.412	1.6160	14.300
	1.1683	2.07274E-04	0.30695		
129	1132.0	1.0000	3.70747E-04	156.37	17.015
	14.517	5.34005E-02	570.40	25.000	400.00
	9.8476	9.8476	81.877	1.5098	83.425
	0.10845	4.45512E-05	0.12817		
130	1212.0	5.0000	2.40526E-04	20.048	3.3990
	60.619	1.31622E-02	77.072	25.000	50.000
	14.936	54.591	3.5799	5.9237	1.9817
	7.8539	4.79003E-12	1.99401E-08		
131	1222.0	5.0000	2.76499E-04	39.562	5.0260
	42.251	1.04476E-02	64.023	25.000	100.00
	20.376	31.667	6.6947	4.4157	3.4094
	5.8395	1.39828E-12	5.05703E-09		
132	1232.0	5.0000	1.50590E-04	110.35	19.023
	19.113	4.17465E-02	275.27	25.000	400.00
	11.592	11.592	23.413	5.8551	10.960
	1.0577	9.35911E-05	0.62150		
133	1242.0	5.0000	9.58074E-05	269.57	45.189
	10.484	7.66901E-02	624.54	25.000	800.00
	6.3104	6.3104	43.704	6.1570	10.315
	0.34495	1.56562E-04	1.6341		

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER: 2/20/79

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	6.0000	1.08822E-03	74.862	13.613
	9.1396	8.73000E-02	202.09	25.000	400.00
	5.5434	5.5434	16.161	4.6324	6.0947
	0.00401	4.50639E-06	4.14106E-03		
121	843.00	6.0000	4.69516E-04	245.35	54.423
	5.6012	0.14044	351.95	25.000	800.00
	3.4458	3.4458	30.222	8.1103	11.753
	0.29326	9.44032E-05	0.20106		
122	923.00	7.0000	1.02724E-04	26.911	5.4911
	39.220	2.03390E-02	43.721	25.000	100.00
	23.793	23.793	3.1896	9.4371	1.4472
	16.441	7.07654E-12	3.07201E-09		
123	933.00	7.0000	2.75417E-05	77.761	13.037
	141.20	5.65062E-03	210.23	25.000	400.00
	11.091	130.93	11.155	6.9711	4.3375
	2.5540	7.91343E-10	2.07326E-05		
124	943.00	7.0000	5.74530E-05	212.40	37.256
	14.675	5.43719E-02	566.31	25.000	800.00
	8.9006	8.9006	20.860	10.182	7.5304
	1.1887	9.01421E-06	0.15690		
125	1023.0	1.0000	8.98936E-05	26.329	5.1495
	98.641	8.08976E-03	53.511	25.000	100.00
	12.236	95.305	23.412	1.1246	14.300
	0.85572	2.07274E-04	2.3050		
126	1033.0	1.0000	2.45730E-05	54.295	21.550
	246.78	3.23320E-03	55.942	25.000	400.00
	9.0498	245.50	81.877	0.66313	83.425
	0.11087	4.45512E-05	1.0130		

EOCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/20/79

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	1.0000	1.54359E-04	23.312	2.0725
	43.957	1.01534E-02	64.573	25.000	50.000
	19.798	32.962	12.519	1.0621	7.4737
	2.6479	1.38109E-05	0.93572E-02		
135	1322.0	1.0000	1.31256E-04	39.522	4.0247
	27.131	2.94861E-02	143.82	25.000	100.00
	16.456	16.456	23.412	1.6885	14.300
	1.1509	2.07274E-04	1.5792		
136	1332.0	1.0000	5.24220E-05	166.56	19.570
	10.791	4.24600E-02	663.25	25.000	400.00
	11.397	11.397	81.877	2.0343	83.425
	0.13662	4.45512E-05	0.64903		
137	1413.0	5.0000	6.63520E-05	6.6570	3.3115
	479.20	1.66502E-03	5.6526	25.000	50.000
	8.0477	478.55	3.5799	1.0506	1.9017
	4.6525	4.79003E-12	7.23110E-08		
138	1423.0	5.0000	1.10622E-04	21.436	6.1036
	151.98	5.25003E-03	23.307	25.000	100.00
	10.880	149.08	6.6947	3.2020	3.4094
	3.1203	1.39828E-12	1.26402E-08		
139	1433.0	5.0000	4.14299E-05	83.420	26.934
	65.866	1.22740E-02	96.174	25.000	400.00
	14.398	59.516	23.413	3.5632	10.960
	1.3138	9.35911E-05	2.2505		
140	1443.0	5.0000	1.66446E-05	119.82	46.076
	120.61	6.203[illegible]E-03	129.81	25.000	800.00
	11.345	126.11	43.704	2.7367	10.315
	0.61944	1.56562E-04	9.4063		

POOR ORIGINAL

EDCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/26/79

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. DUD(M) SZ PG
141	1453.8 17.377 10.983 0.44501	5.0000 4.43545E-02 10.993 1.22253E-04	1.27594E-04 476.20 63.145 0.95513	236.57 25.000 3.7464	40.729 1200.0 24.501
142	1463.8 9.8124 5.9515 0.19927	5.0000 0.13141E-02 5.9515 9.16796E-05	1.48581E-04 831.28 81.879 0.61783	240.74 25.000 3.8379	34.438 1600.0 29.864
143	1513.8 32.564 20.357 0.2892	4.0000 2.37723E-02 20.357 2.61641E-12	7.40425E-04 25.731 5.0349 3.49055E-09	13.824 25.000 2.5879	2.2178 50.000 2.4798
144	1523.8 42.943 28.698 4.5161	4.0000 1.85869E-02 31.046 3.62978E-09	4.28622E-04 28.682 9.4140 9.18054E-06	21.448 25.000 2.2772	3.3534 100.00 4.5568
145	1533.8 145.09 11.008 0. .511	4.0000 5.40943E-03 147.80 1.68563E-04	6.65128E-05 54.604 32.926 2.5343	58.761 25.000 2.4539	34.439 400.00 15.394
146	1543.8 171.79 10.598 0.39881	4.0000 4.64441E-03 169.95 1.24973E-04	9.66785E-06 166.55 61.573 12.926	149.21 25.000 2.4071	58.716 800.00 26.555
147	1553.8 47.658 17.858 0.49679	4.0000 1.67447E-02 38.655 7.83436E-05	3.51814E-05 424.05 98.882 2.2268	175.73 25.000 1.9798	33.884 1200.0 35.691

EDCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/26/79

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. DUD(M) SZ PG
155	1713.8 41.791 28.144 24.191	7.0000 1.06403E-02 30.724 2.22261E-11	4.14445E-04 50.359 1.7856 5.96266E-09	14.068 25.000 0.2479	1.6719 50.000 0.06165
156	1723.8 116.53 11.649 0.0496	7.0000 6.04729E-03 113.74 7.87654E-12	8.37985E-05 100.63 3.1836 8.44551E-09	34.757 25.000 10.097	4.9778 100.00 1.4472
157	1733.8 232.84 9.9578 2.256	7.0000 3.42677E-03 231.48 7.91343E-10	7.63985E-06 316.90 11.155 1.83588E-04	133.32 25.000 11.951	22.213 400.00 4.3375
158	1743.8 454.47 8.8861 1.1684	7.0000 1.61356E-03 493.84 9.81421E-06	4.38571E-06 424.91 20.868 2.0554	107.23 25.000 9.9756	34.396 800.00 7.5384
159	1753.8 1127.2 7.9416 0.25384	7.0000 7.87843E-04 1126.9 6.16486E-05	1.92361E-06 486.99 30.605 32.848	169.67 25.000 5.6395	20.641 1200.0 10.545
160	1763.8 2274.9 7.3046 0.57935	7.0000 3.58732E-04 2274.8 9.43469E-05	9.99717E-07 180.62 35.311 94.374	137.36 25.000 3.5212	41.156 1600.0 12.746
161	1813.8 76.285 13.412 10.427	6.0000 1.84782E-02 71.712 1.03267E-11	3.54331E-04 12.946 2.4718 2.91443E-08	9.2282 25.000 1.7346	2.0537 50.000 1.2881

EDCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/26/79

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. DUD(M) SZ PG
148	1563.8 4.1128 2.4948 5.78526E-02	4.0000 0.19464 2.4948 5.36674E-05	1.98008E-04 655.06 115.15 0.26994	282.53 25.000 2.4579	42.593 1600.0 43.715
149	1613.8 55.389 15.788 6.3667	4.0000 1.44760E-02 48.401 2.61641E-12	2.63152E-04 25.911 5.8345 9.94254E-09	17.551 25.000 3.4862	2.1397 50.000 2.4758
150	1623.8 53.145 16.463 3.6125	4.0000 1.52803E-02 41.549 3.82978E-09	1.97485E-04 38.892 9.4140 1.54082E-05	23.416 25.000 2.4074	4.3781 100.00 4.5568
151	1633.8 119.69 11.564 0.75117	4.0000 6.66649E-03 116.90 1.68563E-04	2.63450E-05 131.33 32.926 6.3581	113.09 25.000 3.4348	20.723 400.00 15.394
152	1643.8 544.29 6.6918 0.33728	4.0000 1.40591E-03 543.72 1.24973E-04	5.32446E-06 201.34 61.573 23.471	247.51 25.000 4.8197	66.876 800.00 26.555
153	1653.8 296.68 9.5343 0.26565	4.0000 2.68941E-03 295.62 7.83436E-05	5.19544E-06 469.06 88.802 15.879	190.82 25.000 2.3367	34.049 1200.0 35.891
154	1663.8 58.964 16.765 8.38351	4.0000 1.56550E-02 47.055 5.36874E-05	5.63987E-05 621.45 115.19 0.95723	262.77 25.000 2.2928	43.668 1600.0 43.715

EDCR DIFFUSION RATIOS

ALL RELEASES:W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/26/79

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. DUD(M) SZ PG
162	1823.8 46.228 18.441 0.2072	6.0000 1.72627E-02 36.682 3.14563E-12	3.13156E-04 23.233 4.6210 1.80349E-08	24.819 25.000 5.2028	6.9333 100.00 2.2472
163	1833.8 66.280 14.271 2.8630	6.0000 1.20526E-02 68.048 4.90638E-06	9.14695E-05 74.229 16.161 4.92665E-02	68.287 25.000 4.2256	24.983 400.00 6.8347
164	1843.8 58.514 12.585 1.0711	6.0000 8.81585E-03 86.940 9.44832E-05	3.57264E-05 145.39 30.322 2.6424	116.84 25.000 3.0660	38.971 800.00 11.758
165	1853.8 128.58 11.346 0.70583	6.0000 6.20529E-03 126.68 1.35923E-04	3.85015E-05 339.05 43.586 4.4563	306.81 25.000 7.8209	40.519 1200.0 16.674
166	1863.8 63.983 12.925 0.66[illegible]	6.0000 9.58965E-03 79.894 1.27138E-04	2.09415E-05 754.89 56.517 4.1087	401.07 25.000 7.8964	63.478 1600.0 19.511
167	1913.[illegible] 59.645 15.161 17.595	7.0000 1.35171E-02 52.779 2.22261E-11	2.14876E-04 24.324 1.7856 9.46293E-08	15.824 25.000 0.8006	1.0671 50.000 0.06165
168	1923.8 75.278 13.479 9.3144	7.0000 1.06003E-02 70.789 7.87654E-12	1.98419E-04 27.881 3.1096 3.71638E-08	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	7.0000	3.02060E-05	79.972	26.855
	171.24	4.65936E-03	97.119	25.000	400.00
	10.590	169.39	11.155	7.1693	4.3375
	2.4433	7.91343E-10	2.61982E-05		
170	1943.0	7.0000	5.45250E-05	163.46	39.154
	63.353	1.15047E-02	315.29	25.000	800.00
	13.963	64.305	20.060	7.8359	7.5304
	1.8523	9.01421E-06	0.16532		
171	1953.0	7.0000	8.23729E-05	169.19	54.110
	71.993	1.10629E-02	227.96	25.000	1200.0
	13.734	67.175	30.085	8.9472	10.545
	1.2024	6.16486E-05	0.74043		
172	1963.0	7.0000	5.06984E-06	375.37	39.591
	287.53	3.84289E-03	612.31	25.000	1600.0
	10.180	286.10	39.011	7.9579	12.746
	0.79869	9.43469E-05	18.612		
173	2013.0	7.0000	1.08699E-04	10.147	3.5111
	166.01	4.80627E-03	28.334	25.000	50.000
	10.671	164.69	1.7050	10.640	0.86165
	12.384	2.22261E-11	2.20718E-07		
174	2023.0	7.0000	1.34460E-04	31.708	7.6932
	117.63	6.68900E-03	40.543	25.000	100.00
	11.565	116.93	3.1896	13.171	1.4472
	7.9916	7.07654E-12	5.26293E-08		
175	2033.0	7.0000	4.78114E-05	132.05	31.183
	96.777	8.24453E-03	142.31	25.000	400.00
	12.311	93.369	11.155	11.830	4.3375
	2.8383	7.91343E-10	1.65913E-05		

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	7.0000	8.05381E-06	202.61	36.967
	173.15	4.60014E-03	446.27	25.000	1200.0
	10.572	171.31	30.085	6.7411	10.545
	1.0025	6.16486E-05	6.9630		
184	2163.0	7.0000	6.07696E-06	147.49	49.853
	283.93	2.81017E-03	174.63	25.000	1600.0
	9.6864	282.82	39.011	3.7000	12.746
	0.75366	9.43469E-05	15.526		
185	2213.0	5.0000	3.22933E-04	12.223	3.0095
	74.906	1.06405E-02	14.240	25.000	50.000
	13.500	70.404	3.5799	3.4142	1.9017
	7.0991	4.79803E-12	1.40577E-08		
186	2223.0	5.0000	2.35663E-04	39.803	7.7220
	89.341	8.93077E-03	29.692	25.000	100.00
	12.641	85.612	6.6947	5.9454	3.4094
	3.6220	1.39820E-12	5.93330E-09		
187	2233.0	5.0000	2.54095E-05	46.529	19.763
	225.68	3.53527E-03	45.099	25.000	400.00
	10.816	224.30	23.413	1.9874	10.960
	0.91790	9.35911E-05	3.6703		
188	2243.0	5.0000	2.04400E-06	83.024	77.312
	3202.0	2.49182E-04	30.264	25.000	800.00
	7.1553	3201.9	43.704	1.8962	18.315
	0.39069	1.56562E-04	76.566		
189	2253.0	5.0000	1.15345E-06	97.023	43.521
	1004.8	7.94071E-04	85.725	25.000	1200.0
	8.0455	1004.5	53.145	1.5365	24.581
	0.32037	1.22253E-04	105.99		

EOCR DIFFUSION RATIOS

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

VA''ABLE 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	7.0000	1.75272E-05	86.619	53.472
	265.94	3.00029E-03	59.739	25.000	800.00
	9.7174	264.75	20.060	4.1523	7.5304
	1.2091	9.01421E-06	0.51430		
177	2053.0	7.0000	1.89273E-05	80.927	26.172
	200.47	3.98009E-03	92.502	25.000	1200.0
	10.252	198.69	30.085	2.6899	10.545
	0.97221	6.16486E-05	3.2570		
178	2063.0	7.0000	5.53531E-05	316.29	43.382
	46.788	1.70531E-02	1019.3	25.000	1600.0
	10.184	37.429	39.011	8.1077	12.746
	1.4266	9.43469E-05	1.7045		
179	2113.0	7.0000	2.10633E-04	14.473	2.9174
	62.084	1.26662E-02	25.487	25.000	50.000
	14.643	57.155	1.7056	8.4857	0.86165
	16.994	2.22261E-11	1.05521E-07		
180	2123.0	7.0000	1.66611E-04	18.738	4.7013
	79.010	1.00985E-02	24.154	25.000	100.00
	13.221	74.780	3.1896	5.8746	1.4472
	9.1360	7.07654E-12	4.24735E-08		
181	2133.0	7.0000	5.30121E-05	52.756	12.969
	137.32	5.81053E-03	77.451	25.000	400.00
	11.150	134.90	11.155	4.7294	4.3375
	2.5724	7.91343E-10	1.49276E-05		
182	2143.0	7.0000	1.28696E-05	122.66	57.825
	342.05	2.33262E-03	81.757	25.000	800.00
	9.3122	341.14	20.860	5.8802	7.5304
	1.2353	9.01421E-06	0.70043		

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	5.0000	2.36316E-06	102.02	33.004
	1071.6	7.44589E-04	152.45	25.000	1600.0
	7.9865	1071.3	81.879	1.2460	29.866
	0.26741	9.16790E-05	30.795		
191	2313.0	5.0000	3.85655E-04	10.346	2.4033
	43.965	1.81481E-02	17.491	25.000	50.000
	19.780	32.985	3.5799	2.8899	1.9017
	10.401	4.79803E-12	1.24413E-08		
192	2323.0	5.0000	5.22456E-04	24.407	6.3233
	33.172	2.40531E-02	23.613	25.000	100.00
	20.120	20.120	6.6947	3.6577	3.4094
	5.7659	1.39820E-12	2.67636E-09		
193	2333.0	5.0000	1.91884E-05	58.377	23.420
	263.06	3.03318E-03	57.678	25.000	400.00
	9.7363	261.86	23.413	2.4934	10.960
	0.80837	9.35911E-05	4.8775		
194	2413.0	6.0000	2.73841E-04	8.1030	2.0693
	92.279	8.64642E-03	13.080	25.000	50.000
	12.564	90.684	2.4710	3.2792	1.2801
	9.7600	1.03267E-11	3.77100E-08		
195	2423.0	6.0000	1.24697E-04	20.474	5.6612
	86.497	9.22445E-03	27.074	25.000	100.00
	12.785	82.627	4.6210	4.4306	2.2472
	5.6894	3.14563E-12	2.52261E-08		
196	2433.0	6.0000	6.67954E-06	73.734	29.820
	872.62	9.14353E-04	70.372	25.000	400.00
	8.1005	872.26	16.161	4.5626	6.8947
	1.1865	4.50638E-06	0.67465		

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	322.00 181.39 19.460 4.6584	6.0000 4.48143E-03 179.53 2.56411E-02	9.71891E-05 19.050 4.6218 298.51	20.132 1.0000 4.3566	5.7927 100.00 2.2472
198	332.00 185.05 18.684 1.5497	6.0000 4.81439E-03 163.72 2.79752E-03	1.09823E-05 219.54 16.161 147.48	117.92 1.0000 7.2978	24.976 400.00 6.8947
199	422.00 21.065 13.262 7.8096	5.0000 3.64915E-02 13.262 1.25939E-02	7.94425E-04 23.898 6.6947 15.853	27.131 1.0000 4.0527	7.8477 100.00 3.4894
200	432.00 13.575 0.2334 8.75125	5.0000 5.87776E-02 0.2334 1.23627E-03	5.98387E-04 194.15 23.413 2.8568	66.603 1.0000 2.8447	11.402 400.00 10.960
201	442.00 27.692 16.863 0.92872	5.0000 2.86951E-02 16.863 3.95777E-04	6.73161E-05 275.28 43.784 5.9794	169.15 1.0000 3.9487	45.561 900.00 10.315
202	522.00 6.6093 4.8573 0.29373	1.0000 8.11928 4.8573 9.46152E-04	1.87407E-03 45.882 23.412 0.80891	26.336 1.0000 1.1249	5.6799 100.00 14.208
203	532.00 16.814 16.198 0.12224	1.0000 4.74540E-02 16.198 4.65936E-05	1.18109E-04 197.00 31.877 0.39450	184.47 1.0000 1.2768	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
211	832.00 78.598 13.853 2.0892	6.0000 1.13832E-02 65.652 2.79792E-03	3.99366E-05 224.85 16.161 70.859	86.978 1.0000 5.3821	16.255 400.00 6.8947
212	842.00 67.266 14.168 1.2851	6.0000 1.16581E-02 62.838 6.89544E-04	2.08543E-05 375.39 30.222 42.674	231.56 1.0000 7.6754	53.833 800.00 11.758
213	922.00 10.862 6.5881 4.5524	7.0000 7.34577E-02 6.5881 4.77488E-02	6.81366E-04 75.179 3.1896 78.877	28.178 1.0000 8.9346	4.8798 100.00 1.4472
214	932.00 12.232 7.4191 1.7185	7.0000 6.52394E-02 7.4191 6.24712E-03	9.65521E-05 375.53 11.155 64.782	134.84 1.0000 12.817	19.183 400.00 4.3375
215	942.00 10.275 6.2319 0.92678	7.0000 7.76559E-02 6.2319 1.98919E-03	8.83193E-05 794.31 28.868 24.766	230.97 1.0000 13.949	43.635 800.00 7.5384
216	1822.0 88.526 12.682 8.80684	1.0000 9.81382E-03 64.757 9.46152E-04	8.29313E-05 62.870 23.412 11.273	42.363 1.0000 1.0894	6.3762 100.00 14.300
217	1832.0 72.893 13.726 0.16457	1.0000 1.10674E-02 67.264 4.65936E-05	3.99040E-05 387.79 81.877 1.1653	158.91 1.0000 1.9489	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
204	622.00 12.610 7.6484 1.6705	4.0000 6.32732E-02 7.6484 7.87898E-03	4.61884E-04 79.297 9.4140 14.652	26.984 1.0000 2.8478	3.8147 100.00 4.5568
205	632.00 24.388 14.797 8.90859	4.0000 3.27267E-02 14.797 6.25365E-04	6.28524E-05 386.96 32.926 10.878	124.72 1.0000 3.7878	28.559 400.00 15.394
206	642.00 17.910 10.863 0.40980	4.0000 4.45458E-02 10.863 1.94801E-04	4.62446E-05 465.16 61.573 4.2038	214.99 1.0000 3.4916	42.872 800.00 26.595
207	722.00 37.348 22.653 15.653	7.0000 2.13636E-02 22.653 4.77488E-02	2.35881E-04 95.587 3.1896 203.11	46.973 1.0000 14.727	6.6867 100.00 1.4472
208	732.00 1026.3 8.8259 1.0584	7.0000 7.77401E-04 1026.0 6.24712E-03	3.43866E-06 91.017 11.155 1816.6	38.386 1.0000 8.8957	29.794 400.00 4.3375
209	742.00 72.673 13.678 1.8145	7.0000 1.09782E-02 67.918 1.98916E-03	3.29345E-05 484.68 28.668 58.619	298.78 1.0000 14.319	55.536 800.00 7.5384
210	822.00 7.9538 4.6418 2.8636	6.0000 8.10426 4.6418 2.56411E-02	4.83174E-03 142.42 4.6218 6.3598	43.875 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
218	1042.0 68.764 14.818 4.76785E-02	1.0000 1.16832E-02 63.661 7.87878E-06	1.64866E-05 656.65 153.12 8.42883	267.49 1.0000 1.7478	45.980 800.00 294.00
219	1123.0 1217.0 7.8737 8.55862	1.0000 6.55609E-04 1216.8 9.46152E-04	9.67116E-06 125.23 23.412 109.11	32.095 1.0000 1.4858	4.1533 100.00 14.300
220	1223.0 191.15 10.352 2.9668	5.0000 4.17417E-03 189.49 1.25939E-02	5.11268E-05 30.571 6.6947 246.33	26.000 1.0000 4.0832	5.9342 100.00 3.4894
221	1233.0 350.47 8.0980 0.73889	5.0000 8.39461E-04 950.14 1.23827E-03	5.34018E-06 78.965 23.413 238.38	75.523 1.0000 3.2257	27.882 400.00 10.968
222	1243.0 549.85 8.0986 8.44228	5.0000 9.48618E-04 949.52 3.95777E-04	2.02796E-06 121.36 43.784 139.95	123.36 1.0000 2.8179	53.783 800.00 18.315
223	1323.0 600.82 0.5604 0.59864	1.0000 1.31854E-03 600.31 9.46152E-04	7.10908E-06 115.84 23.412 133.09	39.292 1.0000 1.6782	5.4573 100.00 14.300
224	1421.0 74.833 13.512 3.8722	5.0000 1.06622E-02 78.240 1.25939E-02	3.64525E-04 19.270 6.6947 34.548	24.677 1.0000 3.6868	6.8585 100.00 3.4894

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
225	1431.0	5.0000	9.15286E-05	150.40	21.434
	56.653	1.40836E-02	331.82	1.0000	400.00
	15.545	49.894	23.413	5.1425	10.960
	1.4184	1.23027E-03	13.443		
226	1441.0	5.0000	2.90566E-05	210.59	62.633
	134.95	5.91248E-03	226.30	1.0000	800.00
	11.206	132.57	43.764	4.0099	18.315
	0.61187	3.95777E-04	13.602		
227	1451.0	5.0000	3.20505E-05	274.10	40.550
	58.090	6.85574E-03	694.46	1.0000	1200.0
	12.605	86.404	63.145	4.3420	24.501
	0.51447	2.05339E-04	6.2510		
228	1461.0	5.0000	1.71097E-05	276.06	57.113
	115.82	6.88920E-03	477.72	1.0000	1600.0
	11.669	113.02	81.079	3.3013	20.866
	0.39870	1.30020E-04	7.5952		
229	1521.0	4.0000	6.33936E-04	21.505	4.4715
	16.141	4.94717E-02	39.611	1.0000	100.00
	9.7981	9.7981	9.4140	2.2842	4.5560
	2.1485	7.07899E-03	11.167		
230	1531.0	4.0000	6.72054E-05	93.315	24.924
	59.759	1.33518E-02	122.62	1.0000	400.00
	15.056	53.509	32.926	2.8341	15.394
	0.97806	6.25365E-04	9.2700		
231	1541.0	4.0000	2.50700	196.85	61.026
	145.51	5.33653E-03	202.32	1.0000	800.00
	16.930	147.38	61.573	3.0348	26.555
	0.41160	1.94401E-04	7.5239		

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
239	1721.0	7.0000	1.32244E-03	25.070	3.6411
	10.815	7.37764E-02	77.054	1.0000	100.00
	6.5596	6.5596	3.1036	8.1107	1.4473
	4.5327	4.77400E-02	36.106		
240	1731.0	7.0000	7.34524E-05	125.25	[illegible]
	40.090	1.62536E-02	317.17	1.0000	400.00
	17.319	40.617	11.159	11.220	4.3375
	3.9929	6.24712E-03	85.050		
241	1741.0	7.0000	7.01209E-04	270.53	49.009
	5.9190	0.13406	406.26	1.0000	800.00
	3.5901	3.5901	20.860	13.371	7.5394
	0.47624	1.90910E-03	2.0360		
242	1751.0	7.0000	1.36416E-05	159.02	10.987
	112.23	7.10900E-03	661.67	1.0000	1200.0
	11.772	105.34	20.075	5.2055	10.545
	1.1164	9.94364E-04	72.894		
243	1761.0	7.0000	3.20257E-06	350.13	51.462
	220.16	3.62404E-03	913.35	1.0000	1600.0
	10.064	210.73	39.011	0.9752	12.746
	0.76956	6.36233E-04	190.66		
244	1821.0	6.0000	1.39409E-03	24.430	5.5395
	6.8367	0.11671	35.745	1.0000	100.00
	4.1467	4.1467	4.6210	5.3060	2.2472
	1.6453	2.56411E-02	10.391		
245	1831.0	6.0000	2.17415E-04	100.09	20.279
	17.742	4.09723E-02	96.155	1.0000	400.00
	10.761	10.761	16.161	6.7379	6.0947
	1.5607	2.79792E-03	12.069		

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
232	1551.0	4.0000	1.05567E-05	169.50	34.669
	144.11	5.53653E-03	306.30	1.0000	1200.0
	11.026	141.09	80.802	1.9807	35.891
	0.30722	9.97940E-05	9.4533		
233	1561.0	4.0000	6.90077E-06	221.90	40.569
	188.20	4.23768E-03	350.25	1.0000	1600.0
	10.385	186.60	115.15	1.9270	43.715
	0.23756	6.32036E-05	9.0540		
234	1621.0	4.0000	7.45035E-04	31.407	5.2650
	9.6038	8.30790E-02	50.305	1.0000	100.00
	5.8250	5.8250	9.4149	3.3454	4.5560
	1.2703	7.07890E-03	5.4912		
235	1631.0	4.0000	5.89120E-05	111.07	26.804
	51.071	1.56225E-02	149.74	1.0000	400.00
	15.736	43.191	32.926	3.3733	15.394
	1.0872	6.25365E-04	10.615		
236	1641.0	4.0000	1.25831E-05	170.74	41.169
	131.14	6.09408E-03	275.55	1.0000	800.00
	11.280	128.69	61.573	2.7729	26.555
	0.42500	1.94401E-04	15.449		
237	1651.0	4.0000	9.21914E-06	245.60	48.431
	132.67	7.06920E-03	477.41	1.0000	1200.0
	11.754	109.99	80.002	2.7779	35.031
	0.32740	5.97940E-05	10.825		
238	1661.0	4.0000	3.45301E-05	395.23	53.092
	47.069	1.69514E-02	775.50	1.0000	1600.0
	18.064	37.033	115.15	3.0050	43.715
	0.41322	6.32036E-05	1.8384		

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
246	1841.0	6.0000	8.77992E-05	212.40	54.900
	34.651	2.30763E-02	202.06	1.0000	800.00
	21.017	21.017	30.222	7.0279	11.750
	1.7887	6.89944E-04	10.136		
247	1851.0	6.0000	7.78404E-05	273.00	44.069
	33.147	2.40713E-02	494.79	1.0000	1200.0
	20.105	20.105	43.586	6.2819	16.074
	1.2500	4.52560E-04	5.8143		
248	1861.0	6.0000	5.97083E-05	374.66	69.977
	37.887	2.10596E-02	541.71	1.0000	1600.0
	22.979	22.979	56.517	6.6292	19.511
	1.1778	2.87905E-04	4.8219		
249	1921.0	7.0000	6.83317E-04	25.903	4.3169
	11.390	7.00655E-02	40.787	1.0000	100.00
	6.9070	6.9070	3.1896	8.0205	1.4472
	4.7720	4.77400E-02	69.856		
250	1931.0	7.0000	1.19679E-04	97.642	23.455
	31.320	2.54753E-02	138.67	1.0000	400.00
	18.997	18.997	11.155	8.7533	4.3375
	4.3796	6.24712E-03	52.199		
251	1941.0	7.0000	9.71207E-05	180.17	45.031
	29.490	2.70550E-02	167.05	1.0000	800.00
	17.887	17.897	20.860	7.6764	7.5394
	2.3720	1.90910E-03	20.400		
252	1951.0	7.0000	5.65330E-05	168.00	32.679
	81.262	9.01862E-03	262.19	1.0000	1200.0
	13.050	77.181	30.085	5.6109	10.545
	1.2403	8.94304E-04	17.569		

POOR ORIGINAL

EOCR DIFFUSION RATIOS

ALL RELEASES;W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/20/79

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	7.0000	1.47623E-05	194.37	45.373
	141.13	5.65335E-03	276.27	1.0000	1600.0
	11.057	136.87	39.011	4.9325	12.746
	0.86946	6.36233E-04	43.856		
254	2011.0	7.0000	5.04890E-04	34.362	5.7037
	15.6[illegible]	5.03440E-02	66.064	1.0000	100.00
	8.7[illegible]43	0.2945	3.1806	10.773	1.4472
	9.7315	4.77480E-02	54.571		
255	2031.0	7.0000	7.63755E-05	171.74	25.601
	41.028	1.97597E-02	161.56	1.0000	400.00
	23.320	26.086	11.155	10.913	4.3375
	5.3764	6.24712E-03	81.794		
256	2041.0	7.0000	3.41620E-05	150.75	53.151
	181.83	7.89763E-03	142.56	1.0000	800.00
	12.146	97.774	20.830	7.2265	7.5384
	1.6112	1.90918E-03	58.227		
257	2051.0	7.0000	3.31789E-05	253.07	40.992
	120.76	6.68725E-03	221.06	1.0000	1200.0
	11.536	118.88	30.085	8.4166	10.545
	1.0935	9.94384E-04	28.978		
258	2061.0	7.0000	2.41873E-05	274.08	57.082
	95.220	8.37939E-03	378.35	1.0000	1600.0
	12.375	91.745	39.011	7.0315	12.746
	0.97090	6.36233E-04	26.296		
259	2121.0	7.0000	1.58631E-03	13.946	2.4527
	8.4153	7.40367E-02	38.519	1.0000	100.00
	5.1829	5.1829	3.1856	4.3724	1.4472
	3.5263	4.77480E-02	30.062		

EOCR DIFFUSION RATIOS

ALL RELEASES;W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/20/79

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	5.0000	7.05675E-06	175.46	36.841
	236.79	3.36976E-03	230.22	1.0000	1200.0
	9.9269	235.45	63.145	2.7797	24.501
	0.40511	2.05359E-04	20.943		
268	2261.0	5.0000	6.70052E-06	212.81	59.405
	345.34	2.31043E-03	259.66	1.0000	1600.0
	9.2979	344.43	81.079	2.5003	29.066
	0.31132	1.30020E-04	15.176		
269	2321.0	5.0000	3.64643E-04	20.061	3.6578
	26.967	2.95675E-02	41.198	1.0000	100.00
	16.356	16.356	6.6947	3.1161	3.4094
	4.6074	1.25939E-02	34.530		
270	2331.0	5.0000	1.59058E-05	77.556	22.647
	282.51	3.54085E-03	54.130	1.0000	400.00
	10.231	280.95	23.413	3.3126	10.560
	0.93354	1.23027E-03	77.347		
271	2341.0	5.0000	3.57676E-06	192.95	46.314
	440.67	1.01078E-03	275.40	1.0000	800.00
	9.5562	439.92	43.704	4.4078	10.315
	0.49982	3.95777E-04	69.522		
272	2351.0	5.0000	2.09708E-06	166.27	42.382
	681.52	1.32644E-03	199.52	1.0000	1200.0
	6.5742	681.08	63.145	2.6332	24.501
	0.34995	2.05359E-04	66.204		
273	2361.0	5.0000	5.45656E-06	215.23	31.990
	197.17	4.64662E-03	710.46	1.0000	1600.0
	10.287	155.57	81.079	2.6707	29.066
	0.34443	1.30020E-04	23.829		

EOCR DIFFUSION RATIOS

ALL RELEASES;W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/20/79

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	7.0000	2.76995E-04	43.489	7.9787
	18.656	4.27586E-02	104.20	1.0000	400.00
	11.315	11.315	11.155	3.8986	4.3375
	2.6007	6.24712E-03	22.553		
261	2141.0	7.0000	1.10776E-04	264.15	45.747
	17.125	4.65914E-02	559.38	1.0000	800.00
	10.387	10.387	20.860	12.663	7.5384
	1.3778	1.90918E-03	17.957		
262	2151.0	7.0000	6.96295E-05	185.72	27.526
	32.723	2.43631E-02	438.95	1.0000	1200.0
	19.047	19.047	30.085	6.1730	10.545
	1.0021	9.94384E-04	14.281		
263	2161.0	7.0000	3.60014E-05	206.04	32.291
	20.200	2.62942E-02	621.36	1.0000	1600.0
	17.184	17.184	39.011	5.2816	12.746
	1.3419	6.36233E-04	17.280		
264	2221.0	5.0000	4.55844E-04	25.293	4.6253
	16.769	4.75810E-02	51.092	1.0000	100.00
	10.171	10.171	6.6947	3.7766	3.4094
	2.9148	1.25939E-02	27.639		
265	2231.0	5.0000	4.10783E-05	115.38	20.404
	64.529	1.23648E-02	133.72	1.0000	400.00
	14.452	50.964	23.413	4.9246	10.560
	1.3186	1.23027E-03	29.387		
266	2241.0	5.0000	6.96057E-06	198.99	60.151
	256.12	3.11527E-03	184.80	1.0000	800.00
	9.7832	254.89	43.784	4.5440	10.315
	0.53410	3.95777E-04	56.795		

EOCR DIFFUSION RATIOS

ALL RELEASES;W/O 50M GRND TRACER; SZ(25) GRND ROOT(LOWER) 2/20/79

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	6.0000	2.07253E-04	25.749	4.5872
	23.074	3.45797E-02	50.610	1.0000	100.00
	13.995	13.995	4.6210	5.5722	3.2472
	6.2279	2.56411E-02	89.263		
275	2431.0	6.0000	1.73428E-05	98.976	31.450
	185.17	4.71013E-03	89.720	1.0000	400.00
	10.422	183.41	16.161	6.1245	6.8947
	1.5116	2.79792E-03	162.27		
276	2441.0	6.0000	2.87369E-05	130.92	46.993
	732.24	1.08965E-03	163.96	1.0000	800.00
	0.3586	731.81	30.222	4.5967	11.750
	0.71137	8.89944E-04	309.69		
277	2451.0	6.0000	2.45227E-06	130.47	20.916
	825.75	9.66251E-04	241.49	1.0000	1200.0
	0.2352	825.37	43.586	2.9934	16.074
	0.51233	4.52509E-04	184.56		
278	2461.0	6.0000	2.66803E-06	192.98	43.378
	530.73	1.50338E-03	367.76	1.0000	1600.0
	0.7213	530.14	56.517	3.4146	19.511
	0.44699	2.87985E-04	107.31		