

1992 CAII CONSOLIDATED AUDIT

CEI REVIEW

PRESENTATION

DOCUMENTATION

JULY 1992

EEPG CIRCLES

DO A 046889
CONFIDENTIAL

THE CHEMICAL EXPOSURE INDEX IS A SIMPLE, EMPIRICAL AND RELATIVE METHOD
FOR RATING THE TOXIC HAZARDS OF CHEMICALS IN A QUANTITATIVE MANNER.

** FOR INTERNAL DOW USE ONLY **

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DISPERSION SUMMARY

TOTAL DISCHARGED =	6795.20 LBS	SOURCE HEIGHT =	0.00 FT
RELEASE DURATION =	15.00 MIN	SPILL AREA =	1000.00 FT**2
MOLECULAR WEIGHT =	71.00	SOURCE TEMPERATURE =	-29.20 DEG F
EEPG CONCENTRATION =	3.0 ppm	AMBIENT TEMPERATURE =	86.00 DEG F

THE RELEASE IS A LIQUID SPILL

THE RELEASE IS CONTINUOUS

THE RADII OF EXPOSURE ARE BASED ON PEAK CONCENTRATIONS

RADII OF EXPOSURE (miles) @ ground level - @ plume centerline

CONC (ppm)	UNSTABLE 12. mph (20 %)*	NEUTRAL 8. mph (40 %)*	STABLE 4. mph (40 %)*
3.0	0.774	3.709	24.603
30.0	0.266	0.923	3.796
300.0	0.106	0.249	0.856

APPROXIMATE % OF TIME IN THIS WEATHER CONDITION

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STABLE ATMOSPHERIC CONDITION - SLIGHT SOLAR RADIATION WITH LOW WIND SPEEDS

(<10 mph) OR STRONG RADIATION WITH HIGH WIND
SPEEDS (>10 mph).

NEUTRAL ATMOSPHERIC CONDITION - WELL MIXED ATMOSPHERE DUE TO MODERATE/STRONG
WIND SPEEDS (>7 mph) AND SLIGHT/MODERATE
SOLAR RADIATION. ANY OVERCAST CONDITION.

STABLE ATMOSPHERIC CONDITION - LOW WIND SPEEDS (<10 mph) AT NIGHT.

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