

TITLE OF PROJ OR STUDY

PROJ OR STUDY NO

SUBJECT

WORKS

COMPUTER

DATE

19

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

June 3, 1981

General Plant Exposure to C-8

Background

- Area and personal samples collected at Incinerator on 4/15/81 showed high C-8 levels by colorimetric analysis. Personal sample confirmed high by GC method

Sample	PPB C-8		AEL PPB
	Color.	GC	
Near salt bath	0.51	0.03	
On incinerator operator	0.84	0.50	0.56

Note: Wind was out of east on 4/15/81.

- Theoretical dispersion calculations show high C-8 levels (80% of AEL under worst case weather conditions) downwind of "Teflon" Area.

High solids polymerization would more than double C-8 air concentrations.

- About 25% of All C-8 used is vented to Atmosphere - 84% from Fine Powder Dryer stacks, (9 M PPY)
- Could scrub Dryer stacks and put C-8 to river. Currently about 11 M PPY goes to river.

ALP003658

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Program / Status

- Obtain more Air samples @ incinerator to verify previous results

Done 5/5, 5/7 + 5/13.
All < 0.03 ppb except 5/5 sample which was 0.07 ppb. All consistent with wind conditions and "Teflon" plant status.

- Take Air samples throughout plant guided by theoretical dispersion.

Done 5/8. All < 0.03 ppb except one at 0.03 ppb 900' from source, 45° from wind direction.

- Collect typical weather conditions and construct isopleths

Conditions collected. ESD to complete 6/81

- Collect Average Annual weather cycle and estimate integrated Annual C-f exposure

11

- Obtain blood samples from long term east end professionals without "Teflon" exposure.

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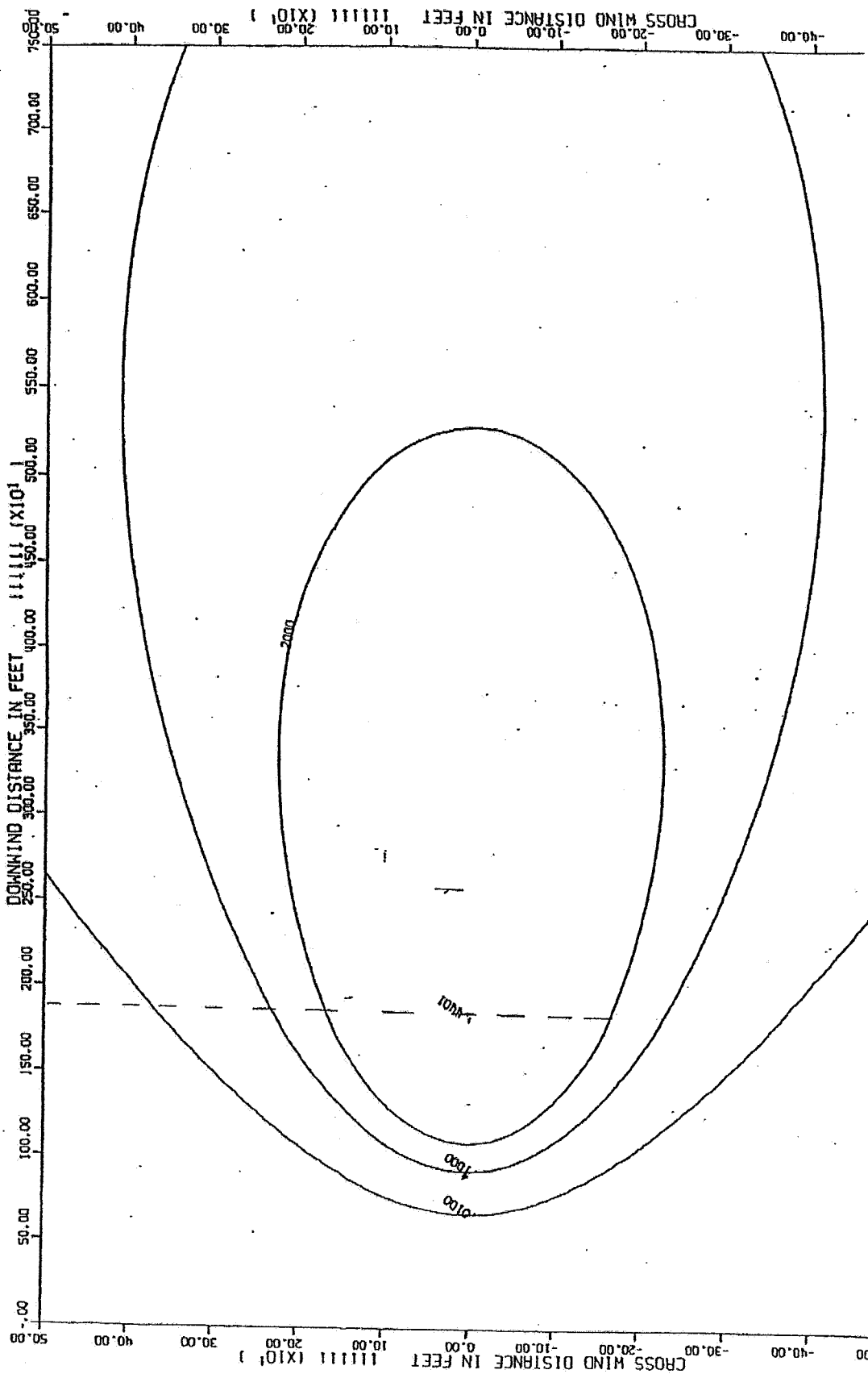
- Reactivate project to scrub dryer vents

Done. Initiated contact with Charleston Regional on scrubber design. CES assigned. FPD informed.

AJP003659

CASE 1 R. R MAY SHUTDOWN
WIND - 8.2 FT/SEC. NEUTRAL

WIND DIR. = 90
ELEVATION = 0 FT.

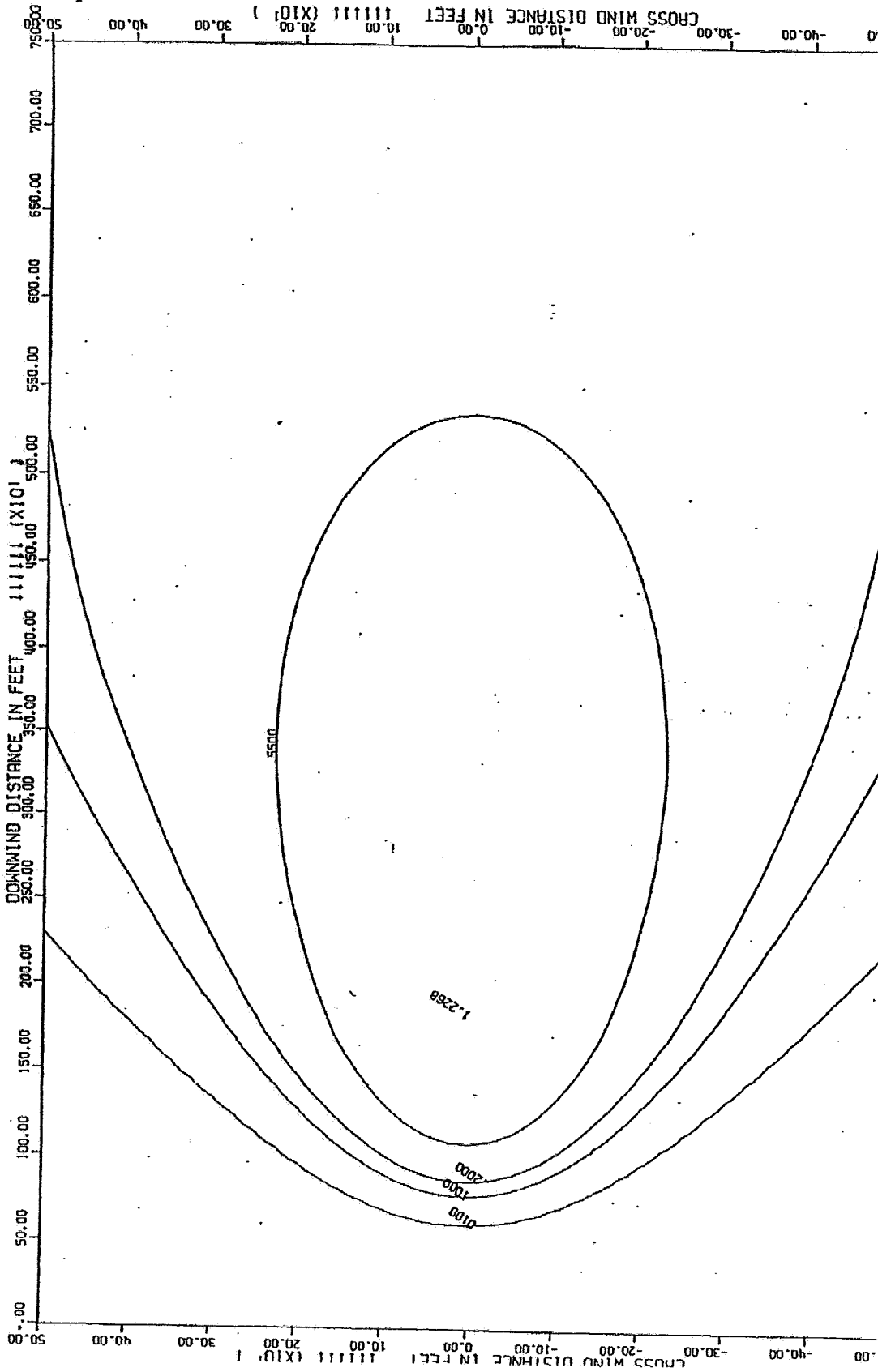


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CASE 2 AF 3 HIGH SOLIDS PROD.
WIND - 8.2 FT/SEC. NEUTRAL

WIND DIRECTION - 90
ELEVATION = 0 FT.

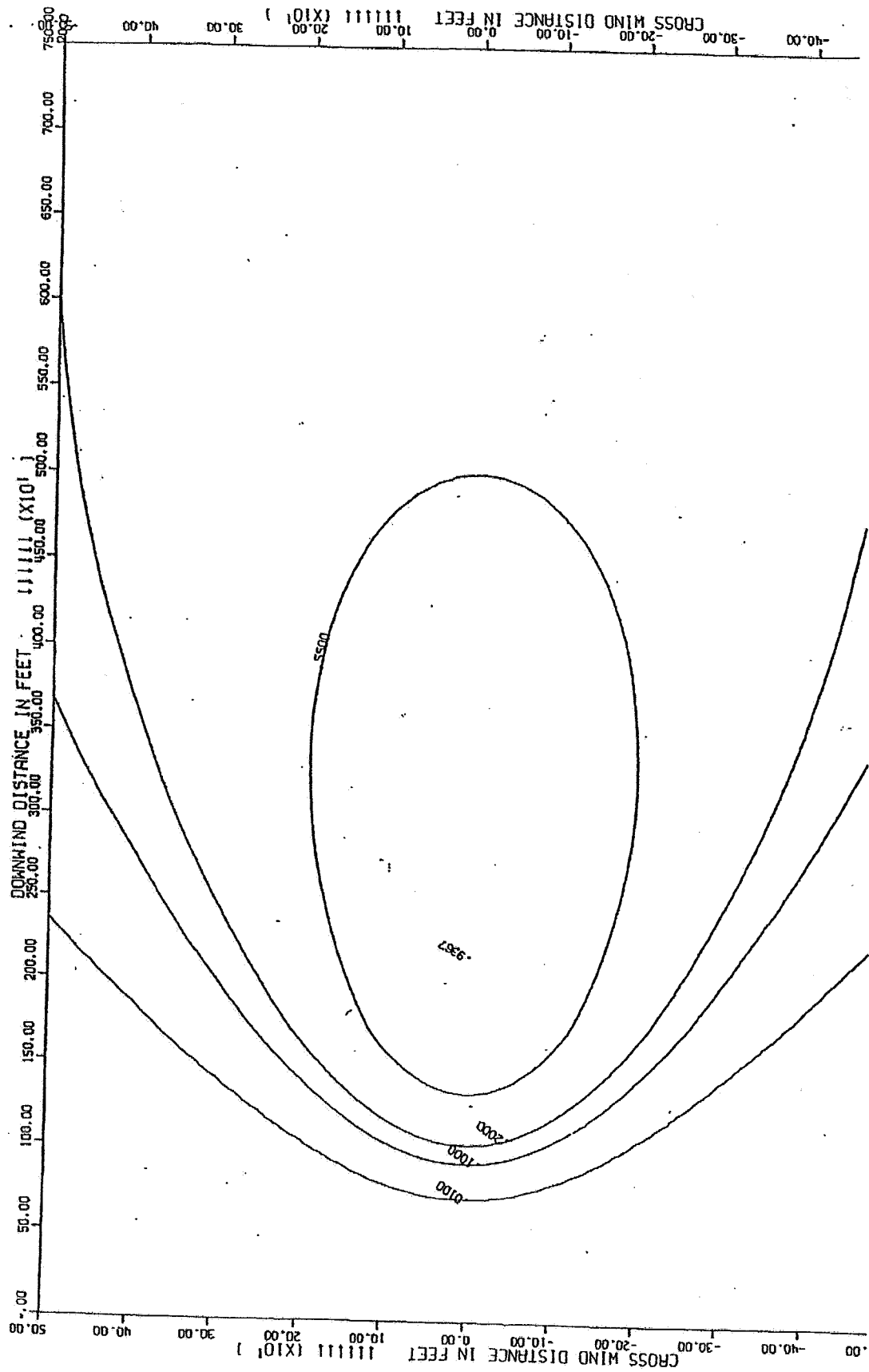


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CASE 3 TER HIGH SOLIDS AND HIGHER AIR FLOW
WIND - 8.2 FT/SEC. NEUTRAL

WIND DIR. = 9 DEG.
ELEVATION = 0 FT.

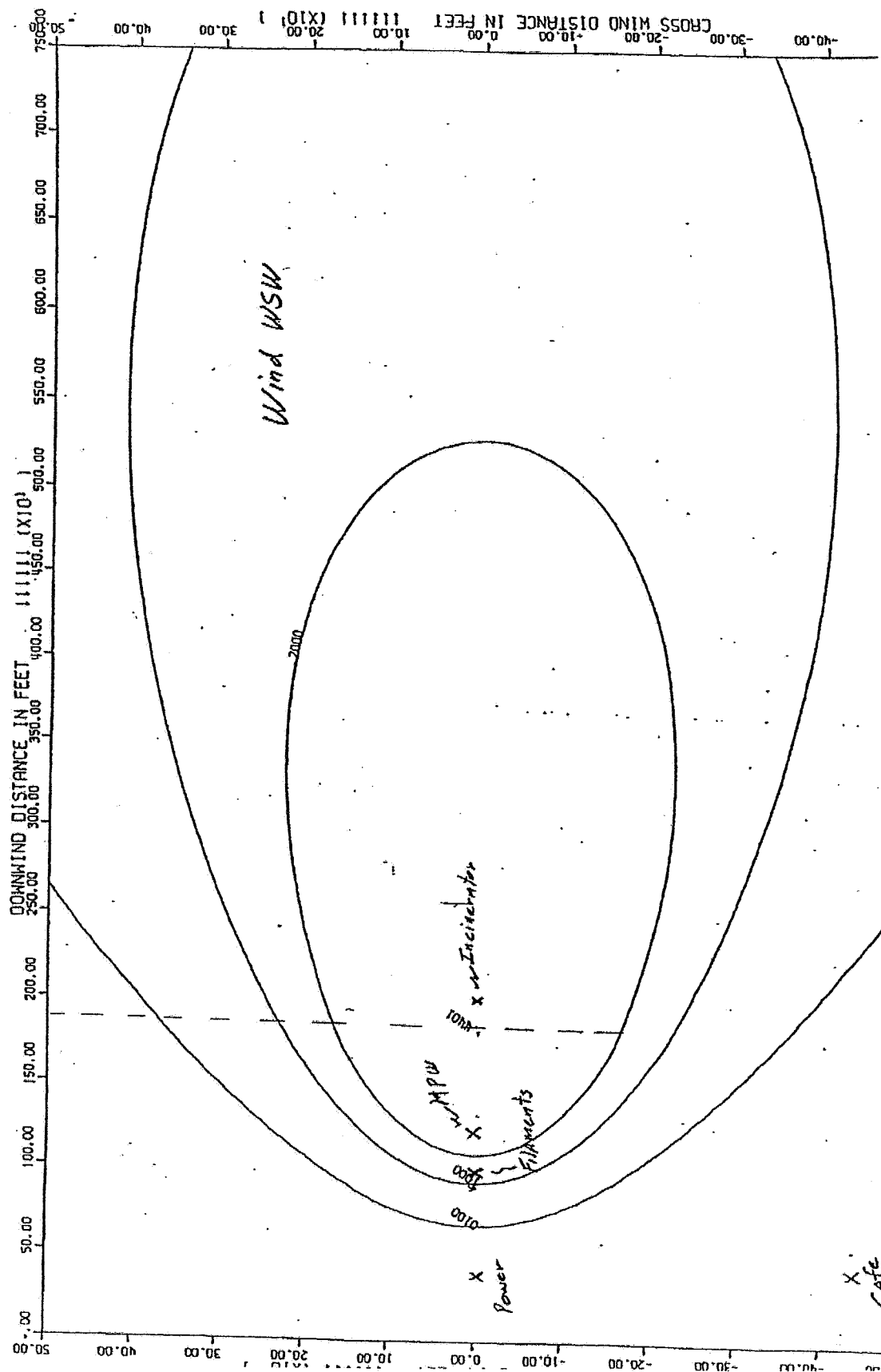


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WIND DIR. = 90 DEG.
ELEVATION = 0 FT.

USE 1 HP "A" MAY SHUTDOWN
WIND - 8.4 FT/SEC. NEUTRAL



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