

AR 226-1633

C-8 IN OFF-PLANT WATER SYSTEMS

- NONE DETECTED IN UPSTREAM PUBLIC WATER SYSTEM.
- NONE DETECTED IN WASHINGTON WORKS' DRINKING WATER.
- DETECTABLE LEVELS FOUND IN TWO DOWNSTREAM PUBLIC WATER SYSTEMS.

JWR:LDR
6/84

EID951565

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RJZ009980

RECEIVED

C-8 PROGRAM

WATER

- REPLACE C-8 WITH TBSA IN FEP PROCESS.
- PARTITIONS WITH PRODUCT NOT WATER.
- DECOMPOSES TO PRESUMED INNOCUOUS BY-PRODUCT IN HUMID HEAT TREATING OVEN. VENTED TO ATMOSPHERE.
- TBSA PROJECT AUTHORIZED FOR CHAMBERS WORKS. START-UP 11/84.
- SWITCH COMPLETE MID 1985.

AIR

- STUDY ABATEMENT BY ENGINEERING CHANGES.

JWR:LDR
6/84

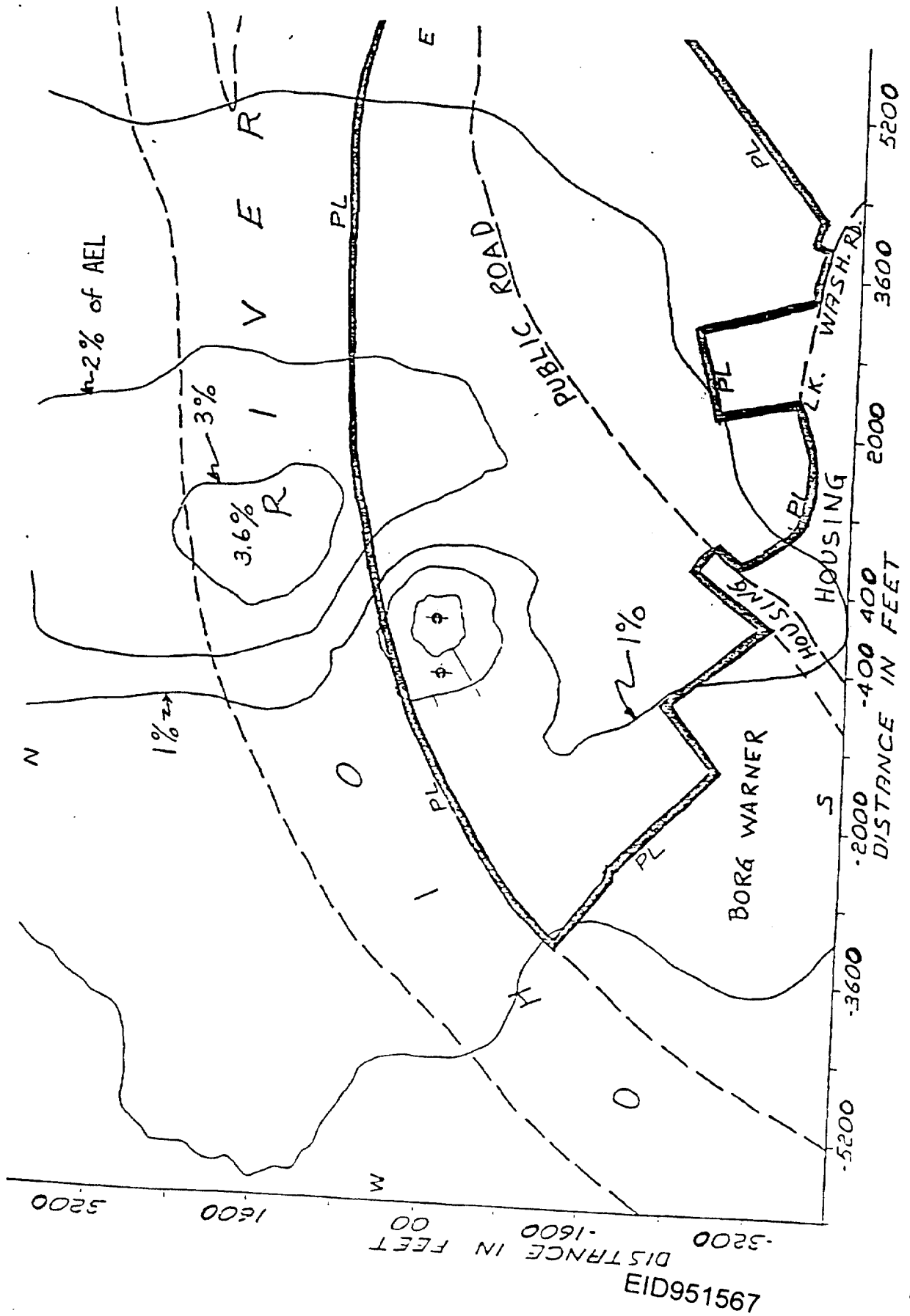
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VINSHINGTON WORKS C-8 ANNUAL MEAN CONCENTRATION CASE 1



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ENGINEERING STUDY RESULTS

- THERMAL DESTRUCTION

- ECONOMICS

- \$1MM + INVESTMENT

- \$1MM ANNUAL OPERATING COST

- (APPROXIMATELY \$0.15/LB. OF PRODUCT)

- TIMING

- 1 1/2 TO 2 1/2 YEARS

- SCRUBBING AND RECOVERY

- ECONOMICS

- \$3.5MM + INVESTMENT

- \$1.5MM DEVELOPMENT COST

- \$2.5MM ANNUAL OPERATING COST

- (APPROXIMATELY \$0.40/LB. OF PRODUCT) BUT

- POTENTIAL BREAK-EVEN IF RECOVERED

- C-8 IS USABLE

- TIMING

- 4-5 YEARS

JWR:LDR
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RJZ009983

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CONCLUSIONS

- NO KNOWN HEALTH EFFECTS AT CURRENT LEVELS
- THIRTY YEARS EXPERIENCE - CONCERN ABOUT
LONGER RANGE
- POTENTIAL LIABILITY
 - THIRD PARTY LAWSUITS
 - ADVERSE PRESS

JWR:LDR
6/84

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RJZ009984

PROGRAMS

WATER

- PURSUE CONVERSION TO TBSA
- DETERMINE DISPOSITION OF C-8 IN SUPERNATE TO CHAMBERS WORKS

AIR

- DEFINE EVOLUTION OF C-8 IN DRYER
- PURSUE FINE POWDER DRYER SLIPSTREAM INCINERATION
- TOTAL DRYER AIR STREAM INCINERATION: DIRECT/BOILER
- PURSUE DRYER EXHAUST SCRUBBING AND RECOVERY (4-5 YEARS)

DISPERSION PRODUCT - KEEP CUSTOMERS FULLY INFORMED

BLOOD DONATIONS - ALLOW TO CONTINUE

FOLLOW 3M STUDIES

CONTINUE TO ADVISE SISTER PLANTS OF OUR ACTIVITIES

JWR:LDR
6/84

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