

DATE:03-14-1989

ENVIRONMENTAL REPORT ESTIMATE

DATE OF RELEASE: 03-14-89

TIME OF RELEASE: 2:55 PM

RELEASE LOCATION: INCINERATOR LINE RUPTURE DISC NORTH OF VCM-I BULLETS

TEMPERATURE, F 80

SYSTEM PRESSURE, PSIG 20

FINAL PRESSURE, PSIG 0

ORIFICE DIAMETER, IN 2.875

PERIOD OF RELIEF, MIN 20

TOTAL AMOUNT RELEASED, LBS. 2033.726

NUMBER OF COMPONENTS IN RELEASE 1

100 wt% 1 1 - DICHLOROETHYLENE 2033.726 LBS.

EQUATIONS USED

SONIC

$W = .0622 C D^2 (P G)^{\frac{1}{2}}$

SUBSONIC

$W = .145 C D^2 (P G)^{\frac{1}{2}}$

W = FLOWRATE, LBS/SEC

D = ORIFICE DIAMETER, IN

G = AVERAGE SPECIFIC GRAVITY (G DEFINED AS DENSITY/DENSITY OF AIR AT 60 F)

C = .6 ORIFICE COEFFICIENT

P = PRESSURE IN PSIA FOR SONIC

P = PRESSURE IN PSIG FOR SUBSONIC

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