

$$P_L = qC_{pe}$$

WHERE

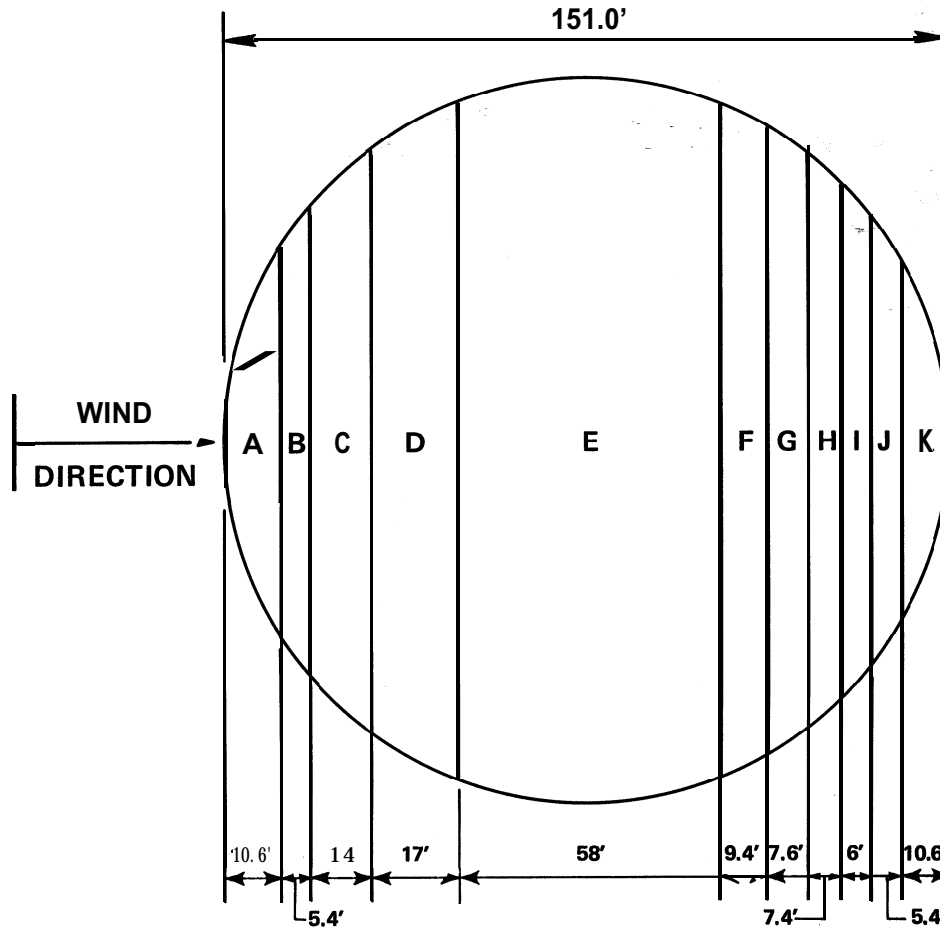
$$V = 200 \text{ mph}$$

$$q = .002558 V^2 = 102 \text{ psf}$$

### PLAN OF DOME/REACTOR BUILDING

#### HORIZONTAL WIND LOADS ON DOME (PSF)

	A	B	C	D	E	F	G	H	I	J	K
PRESS. COEF. $C_{pe}$	-1.4	-1.2	-0.8	-1.0	-1.13	-1.0	-0.9	-0.7	-0.6	-0.5	-0.4
EXT. LOAD $P_L$	-143	-122	-62	-102	-115	-102	-92	-71	-61	-51	-41



$$P = qC_{pe} + p$$

WHERE

$$V = 360 \text{ mph}$$

$$q = .002558 V^2 = 332 \text{ psf}$$

$$p = -3 \text{ psi} = -432 \text{ psf}$$

PLAN OF DOME/REACTOR BUILDING

HORIZONTAL TORNADO WIND LOADS ON DOME (PSF)

	A	B	C	D	E	F	G	H	I	J	K
PRESS. COEF. $C_{pe}$	-1.4	-1.2	-0.8	-1.0	-1.13	-1.0	-0.9	-0.7	-0.6	-0.5	-0.4
EXT. LOAD $P_L$	-465	-398	-266	-332	-375	-332	-299	-232	-199	-166	-133
EXT. LOAD WITH DI FF. PRESS.	-897	-830	-698	-764	-807	-764	-731	-664	-631	-598	-565

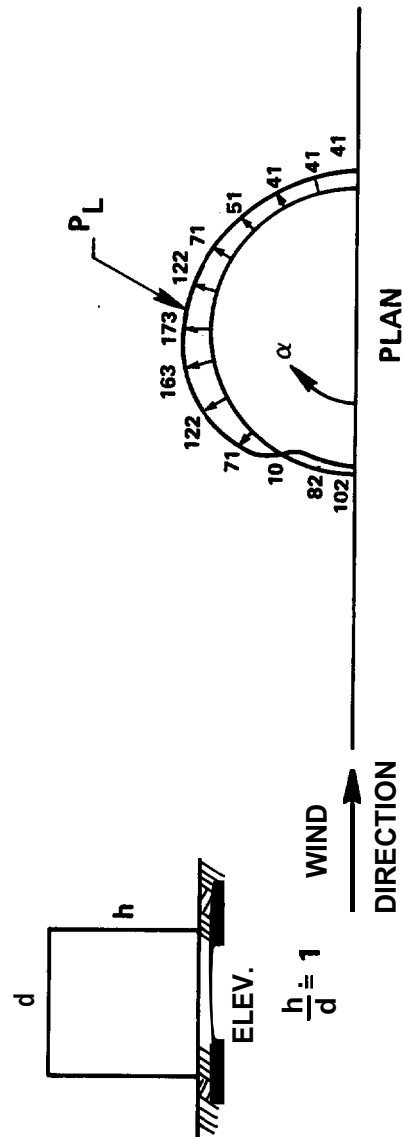
$v = 200$  mph

$q = .002558 v^2 = 102$  psf

HORIZONTAL WIND LOAD ON CYL WALL (PSF)

$\pm \alpha$

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
PRESS. COEF. $C_{pe}$	1.	.8	.1	-.7	-1.2	-1.6	-1.7	-1.2	-.7	-.5	-.4	-.4	-.4
EXT. PRESS $P_L$	102	82	10	-71	-122	-163	-173	-122	-71	-51	-41	-41	-41



V = 360 mph

q = .002558 V<sup>2</sup> = 332 psf

p = 3 psi = -432 psf

# HORIZONTAL TORNADO LOAD ON CYL WALL (PSF)

	± α												
	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
PRESS. Cpe COEF.	1.	.8	.1	-7.	-1.2	-1.6	-1.7	-1.2	-.7	-.5	-.4	-.4	-.4
EXT. PRESS P <sub>L</sub>	332	266	33	-232	-398	-531	-564	-398	-232	-166	-133	-133	-133
EXT. PRESS WITH DIFF PRESS	-100	-166	-399	-664	-830	-963	-996	-830	-664	-598	-565	-565	-565

