

SLIDE PRESENTATION
(T.E. NATAN)

P_V = VERTICAL HYDRAULIC FORCES ON
INTERNALS

P_R^H = HORIZONTAL HYDRAULIC FORCES ON
VESSEL

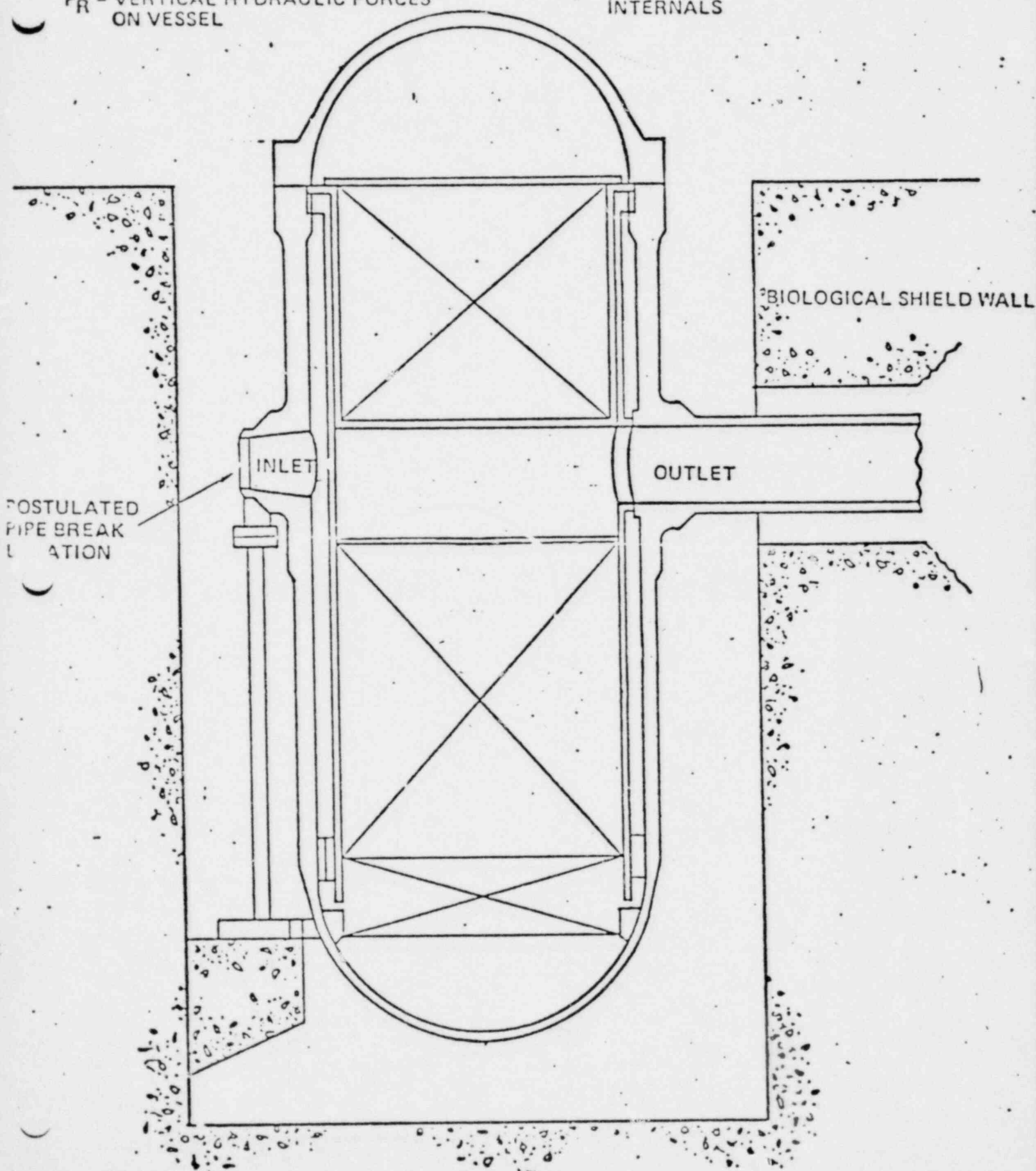
P_R^V = VERTICAL HYDRAULIC FORCES
ON VESSEL

P_T = PIPE BREAK THRUST

P_C^H = HORIZONTAL CAVITY PRESSURE FORCES

P_C^V = VERTICAL CAVITY PRESSURE FORCES

P_I^H = HORIZONTAL HYDRAULIC FORCES ON
INTERNALS



P_Y = VERTICAL HYDRAULIC FORCES ON
INTERNALS

P_R^H = HORIZONTAL HYDRAULIC FORCES ON
VESSEL

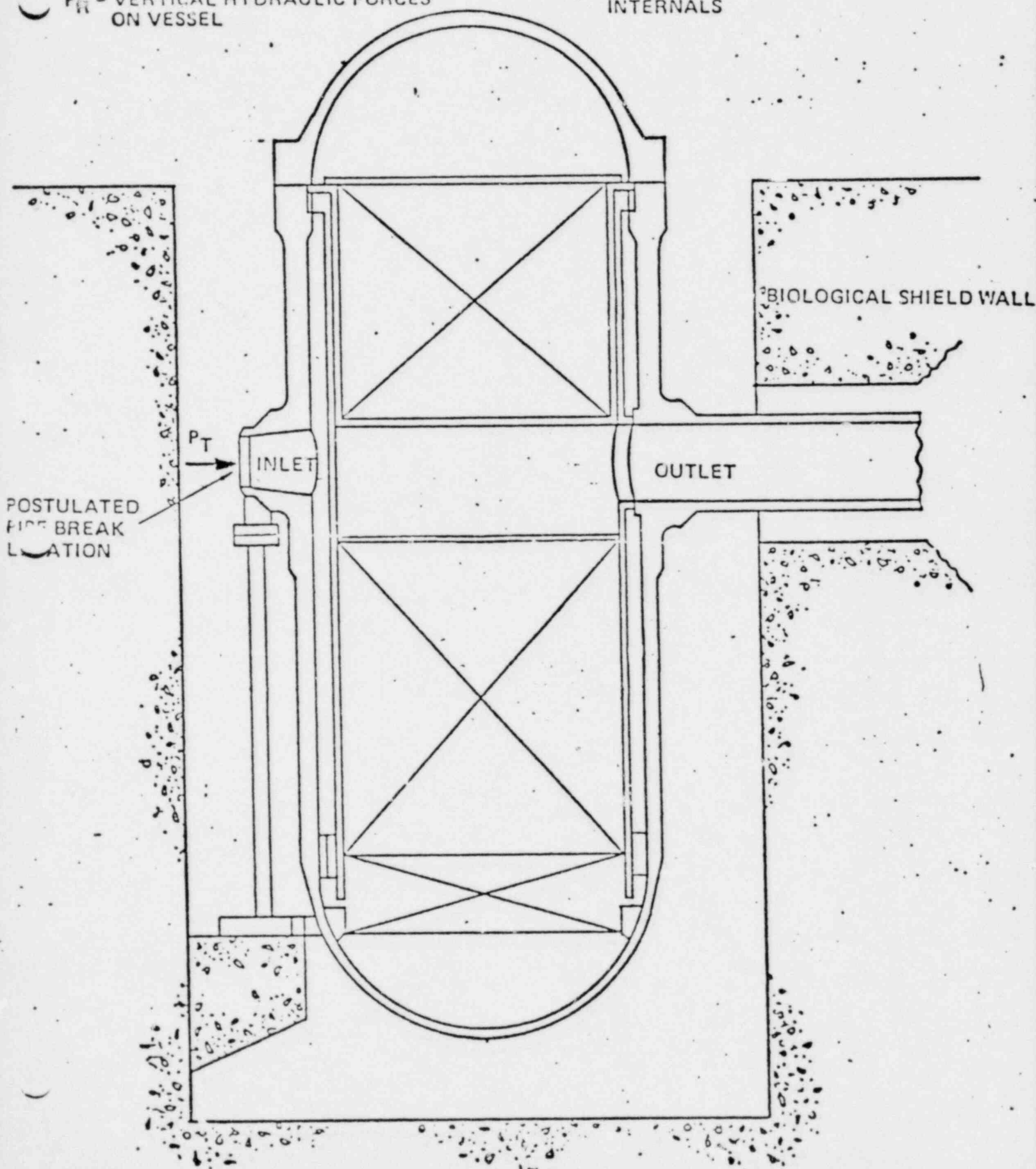
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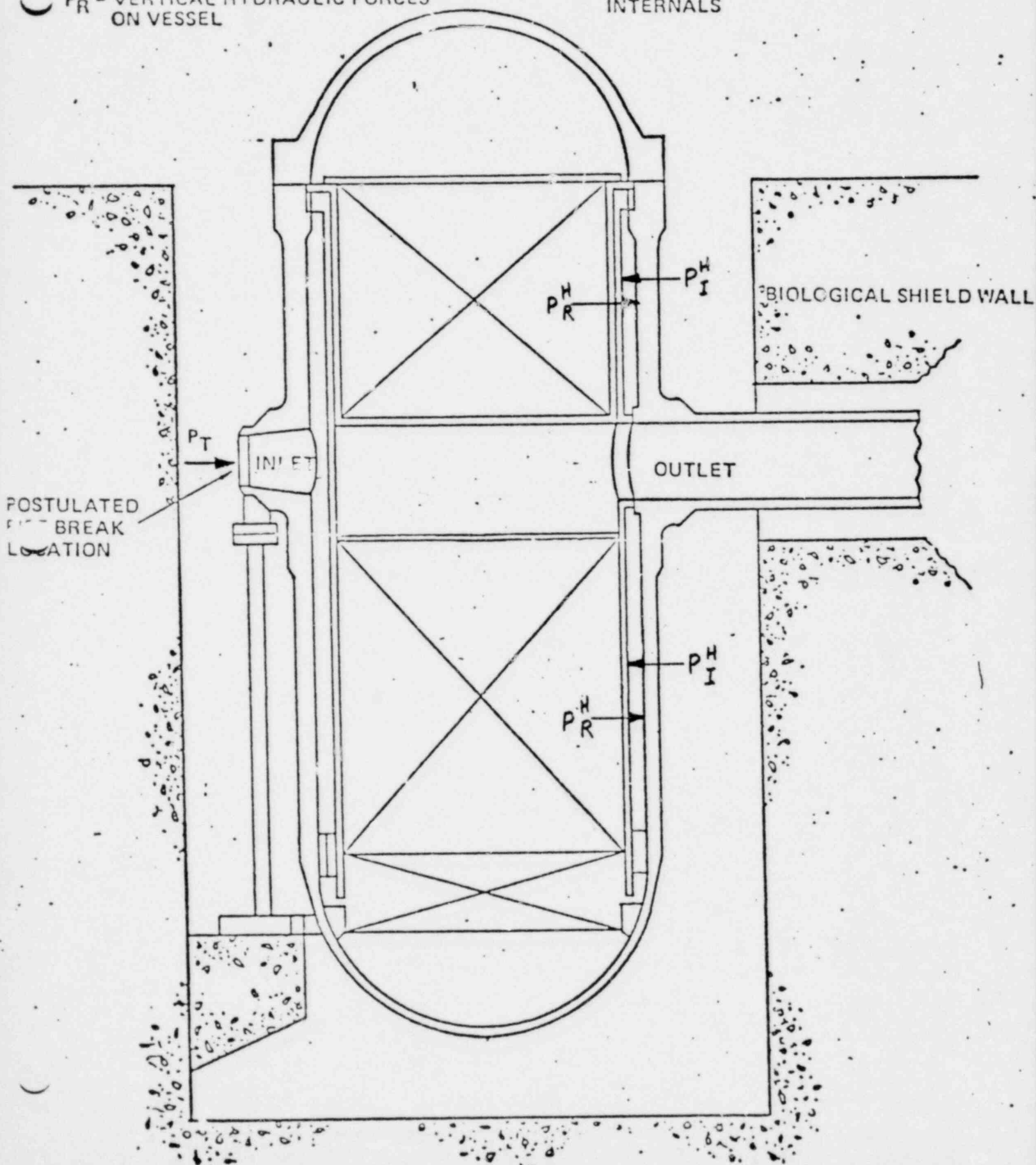
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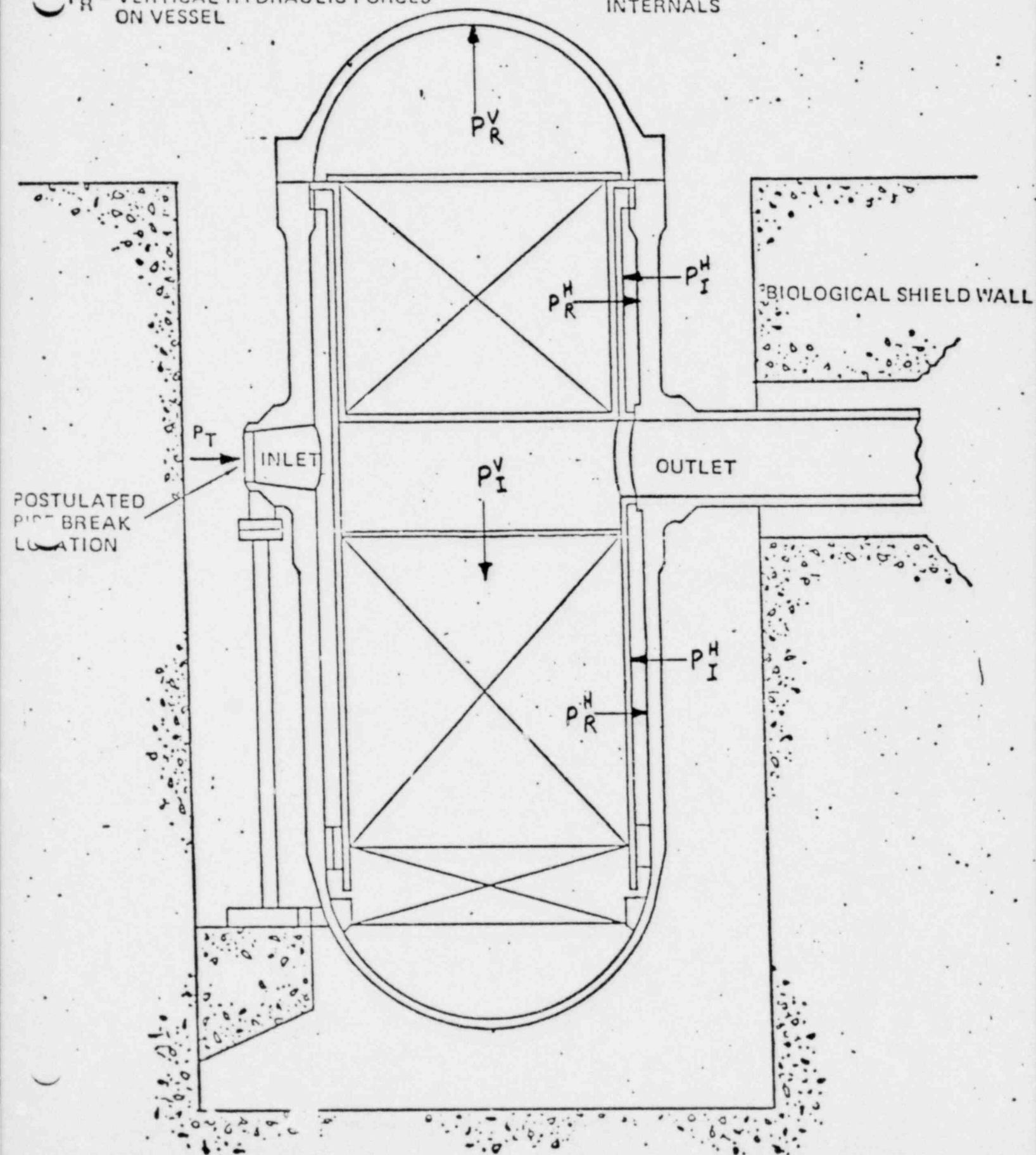
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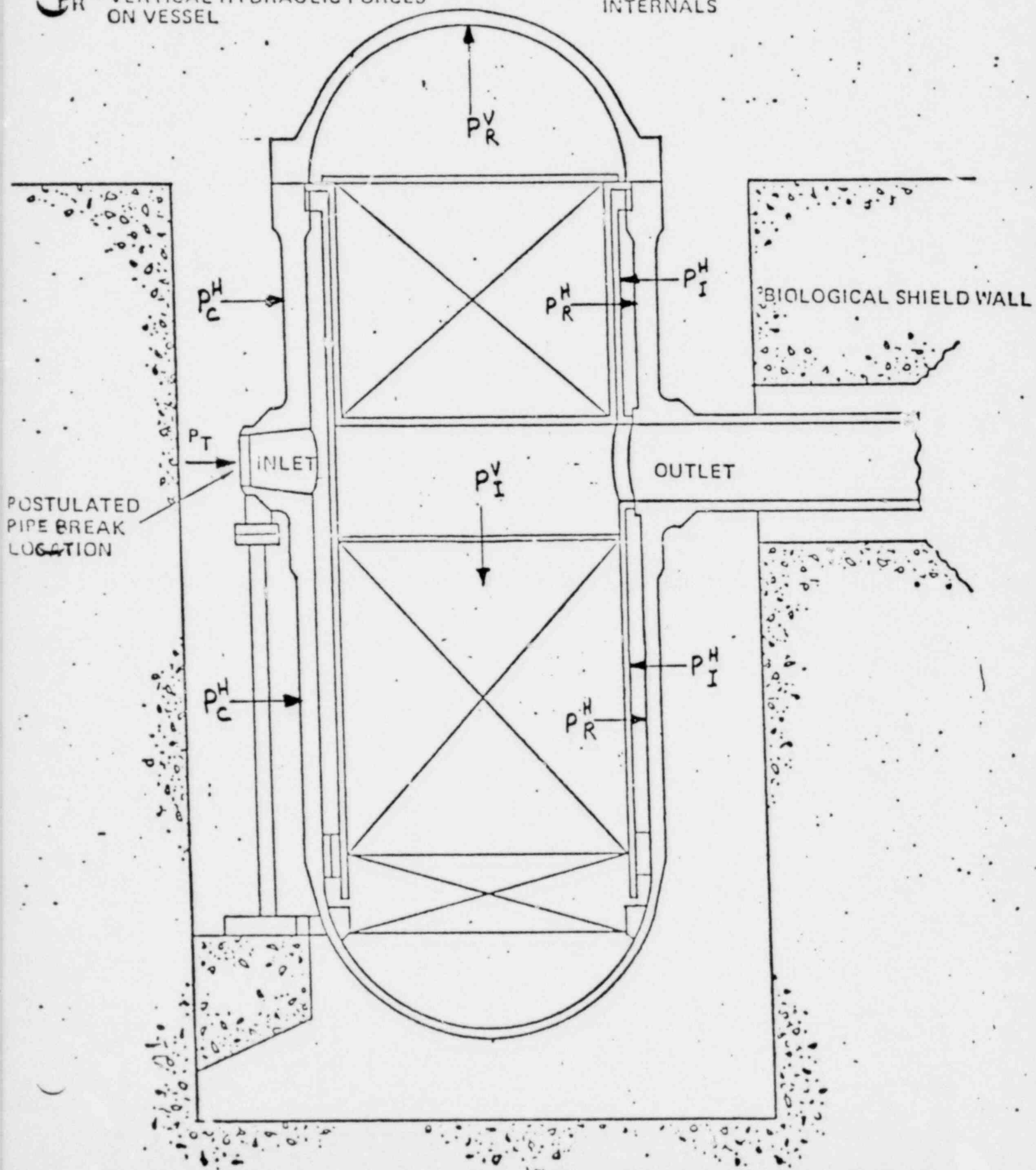
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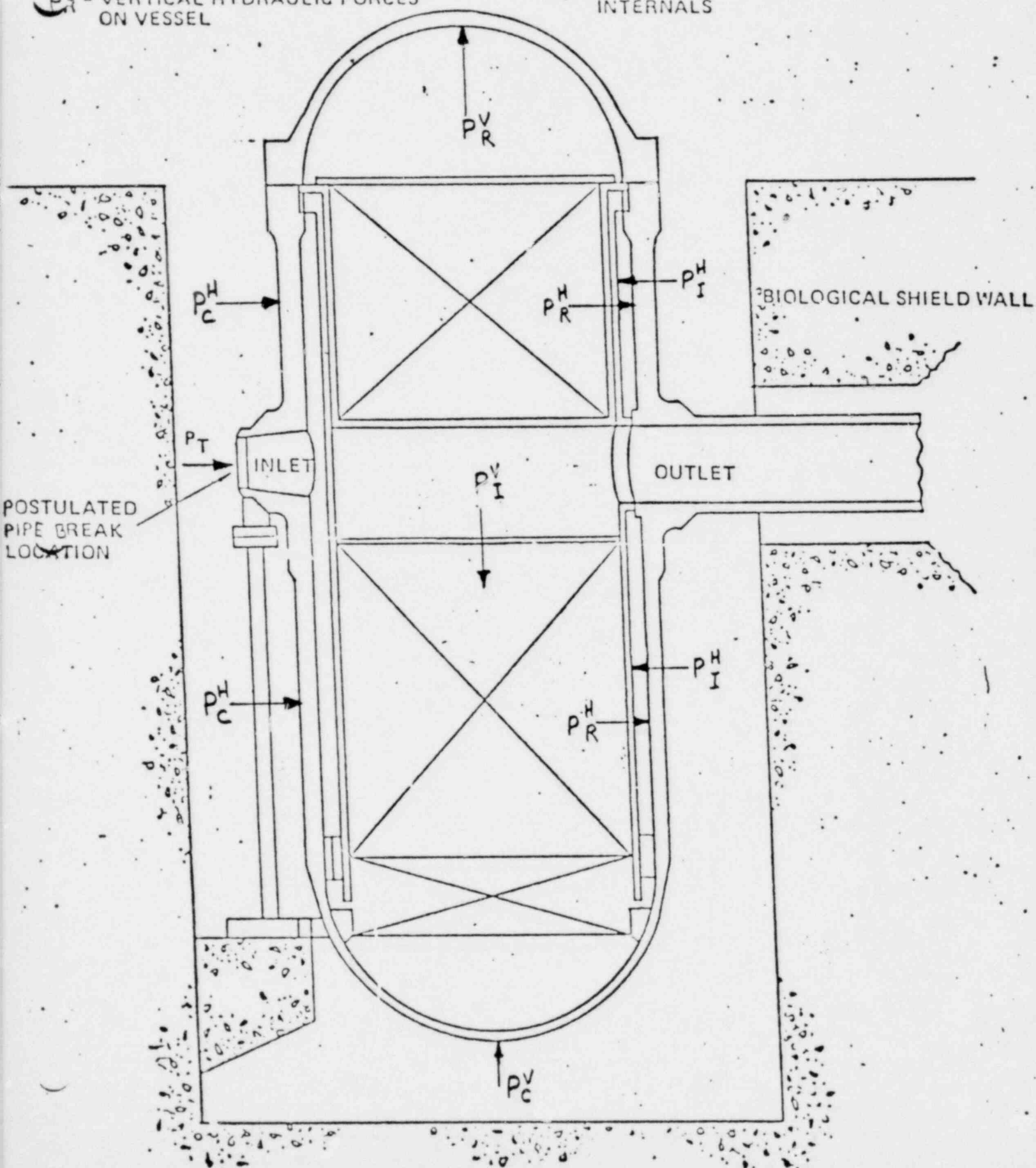
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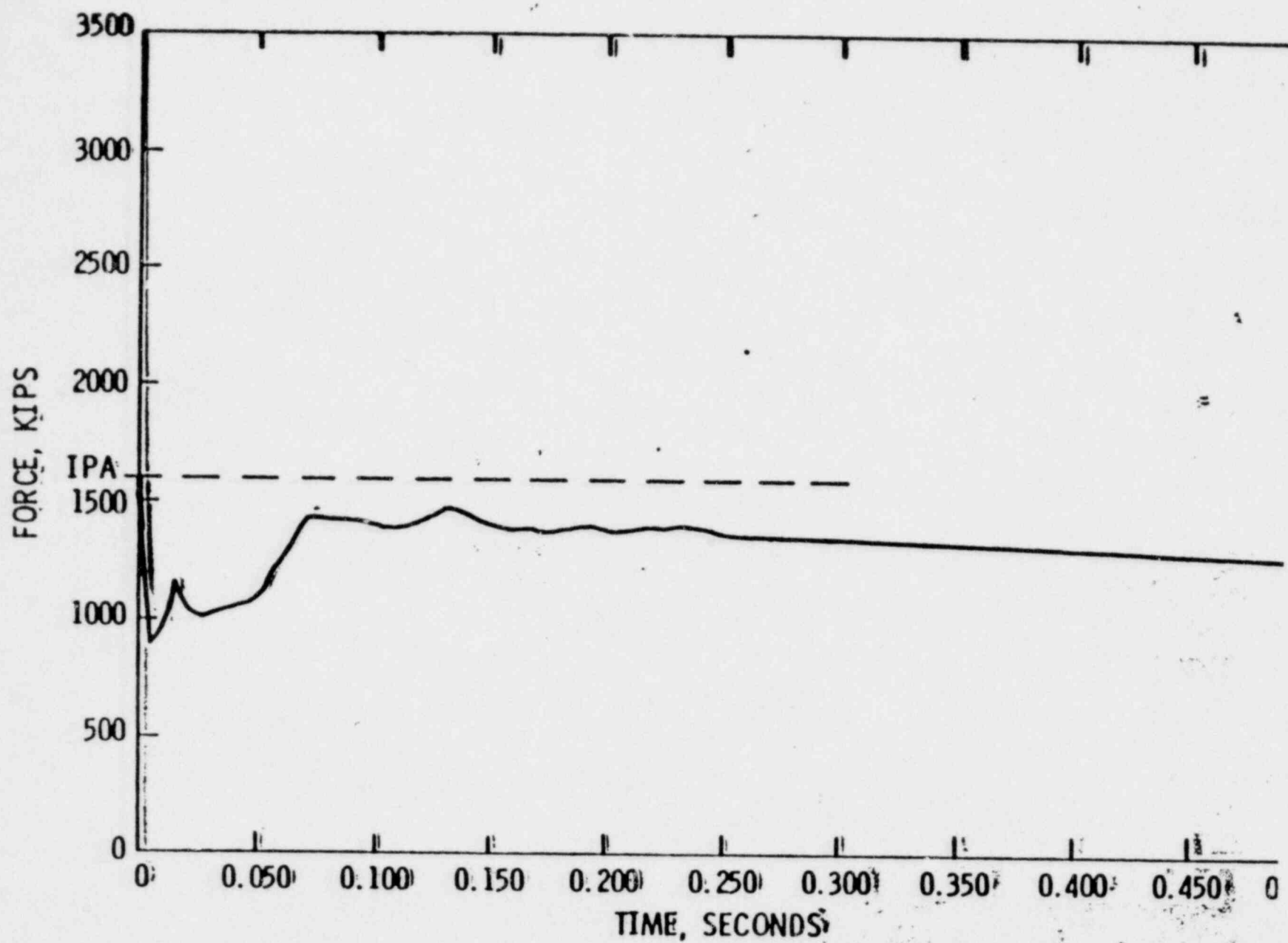
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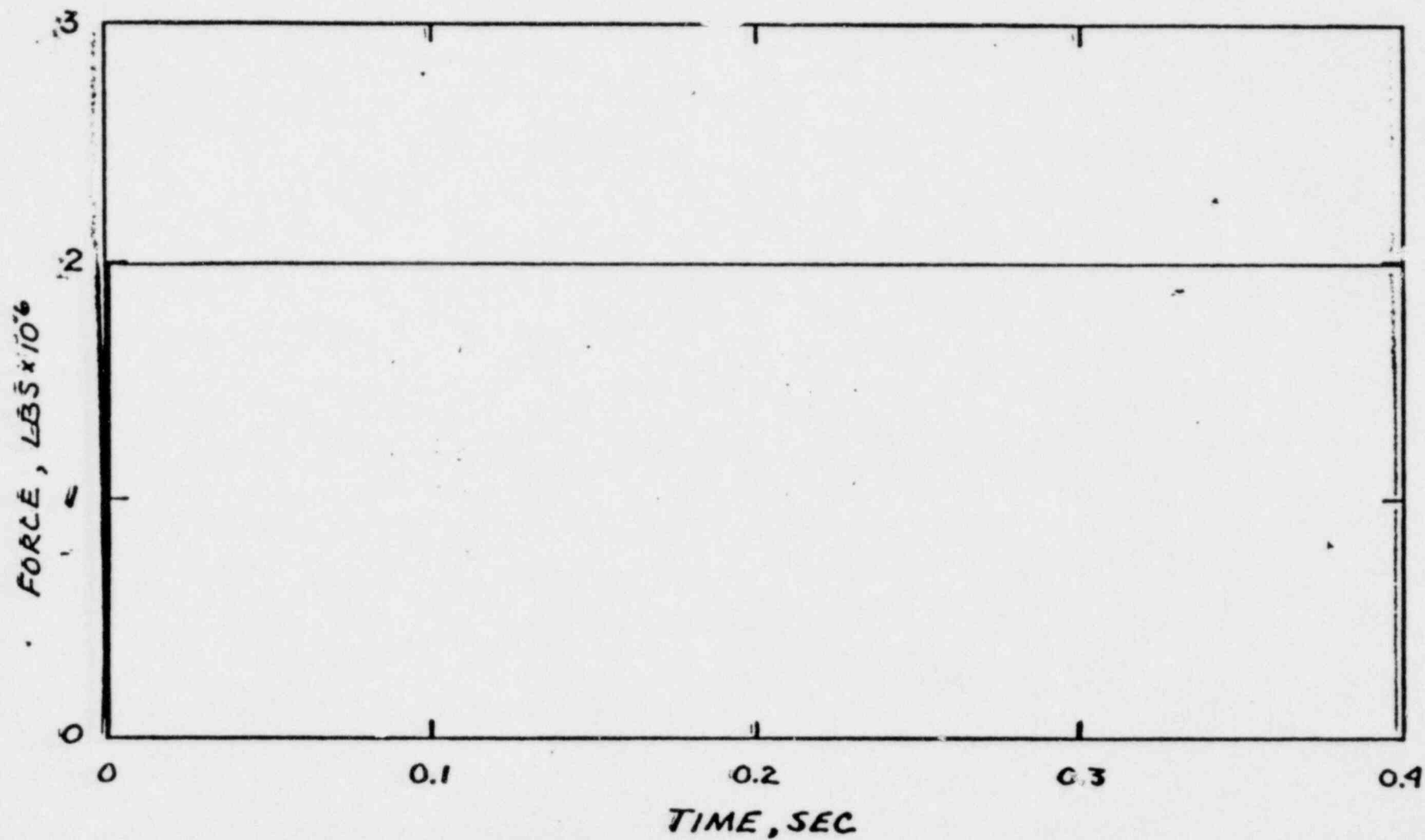
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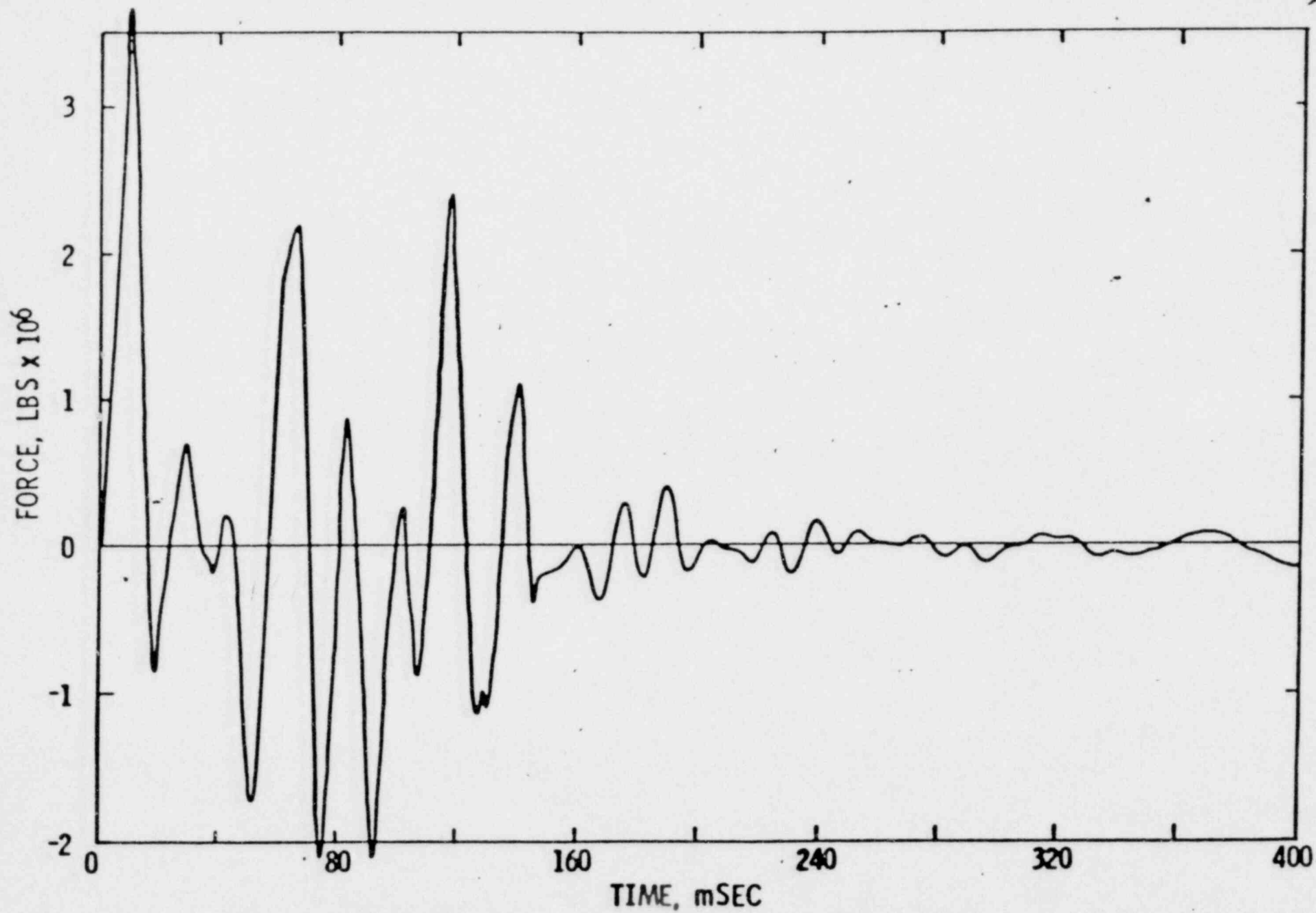


(TYP)

SAN ONOFRE SUDDENLY APPLIED THRUST FORCE
WITH JET IMPINGEMENT FACTOR



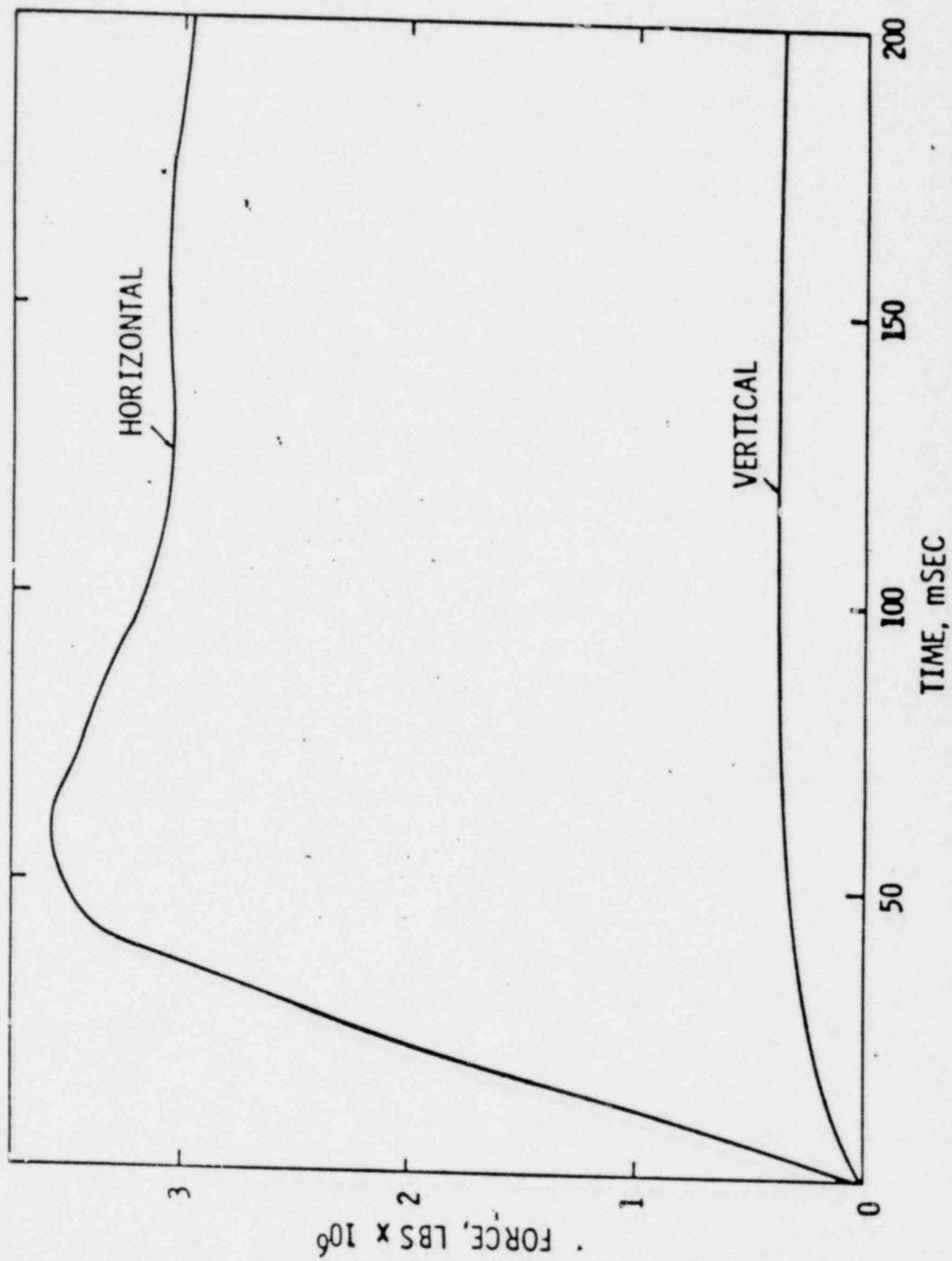
CORE SUPPORT BARREL HORIZONTAL FORCING FUNCTION (TYP)



SUBJECT

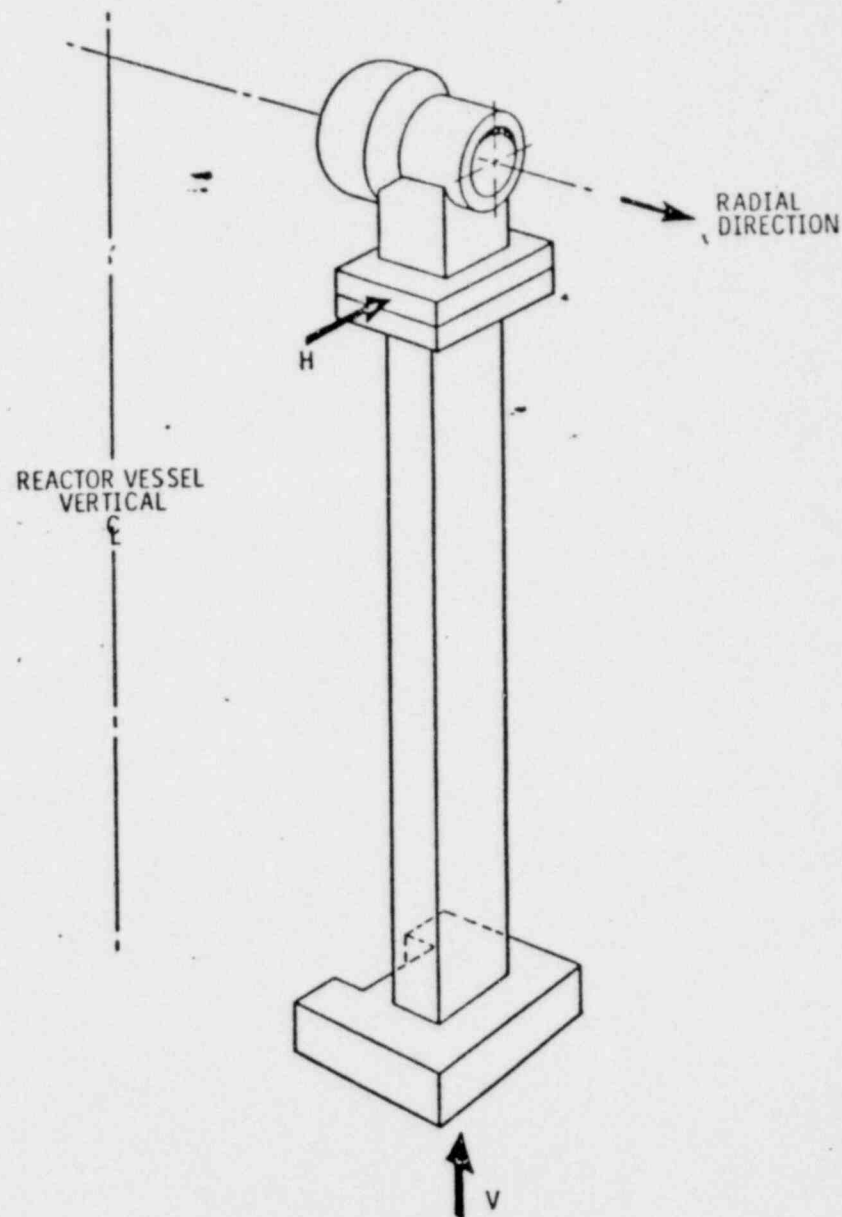
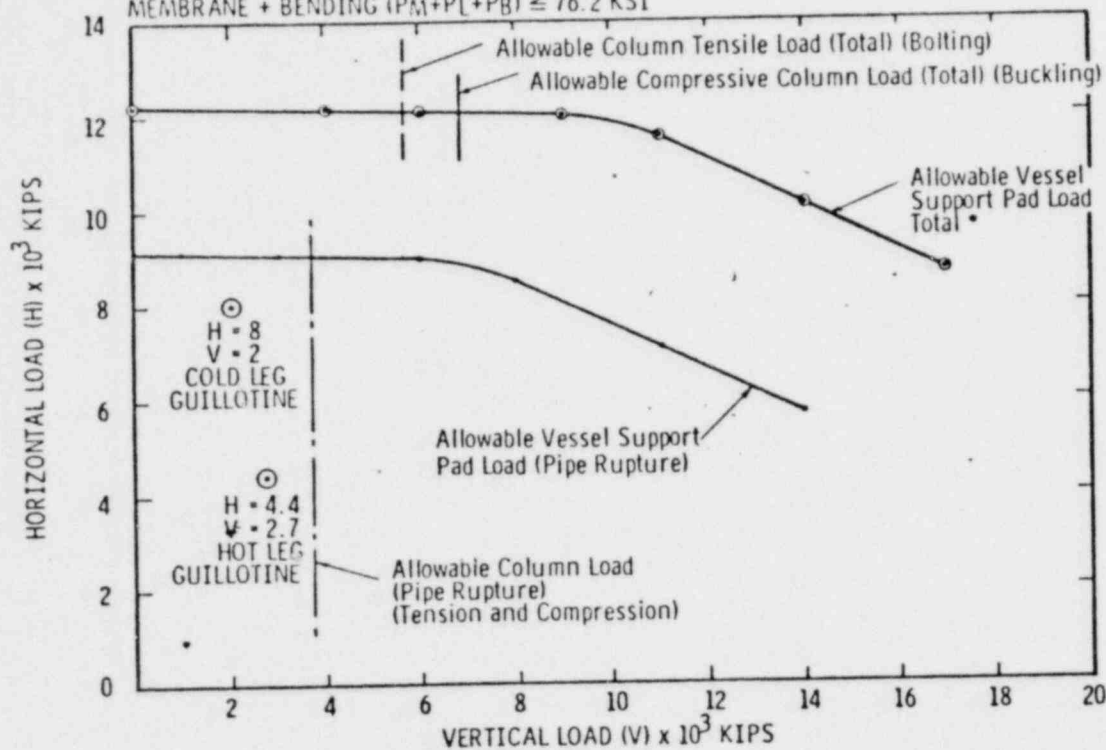
3M
CATALOG NO.

CAVITY PRESSURE FORCING FUNCTIONS (TYP)



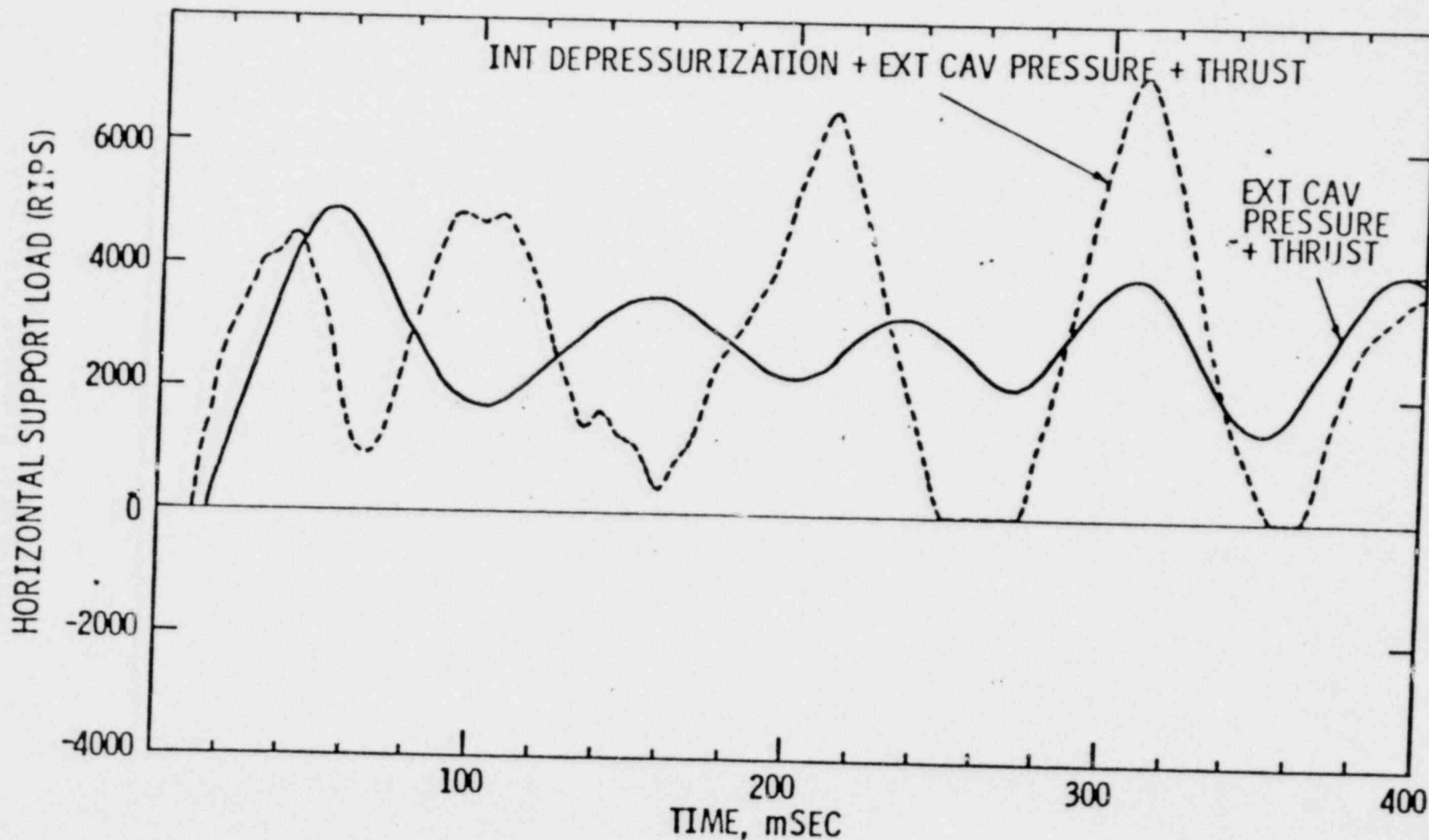
ALLOWABLE VESSEL SUPPORT LOADS (TVP)

*SA 508 CLASS 2 ALLOWABLE STRESSES:
 MEMBRANE (PM) ≤ 50.8 KSI
 MEMBRANE + BENDING (PM+PL+PB) ≤ 76.2 KSI

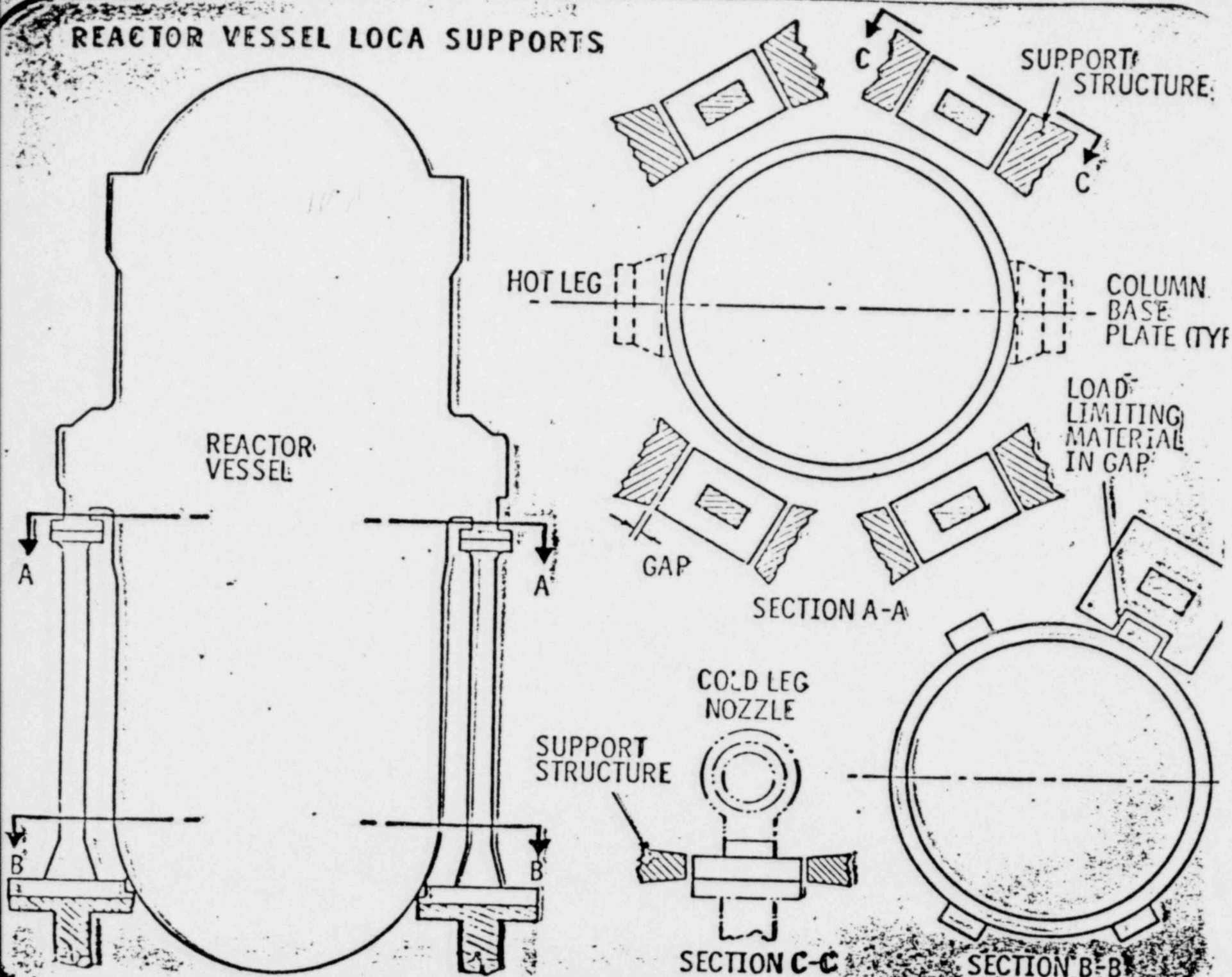


RV HORIZONTAL SUPPORT LOAD VS TIME

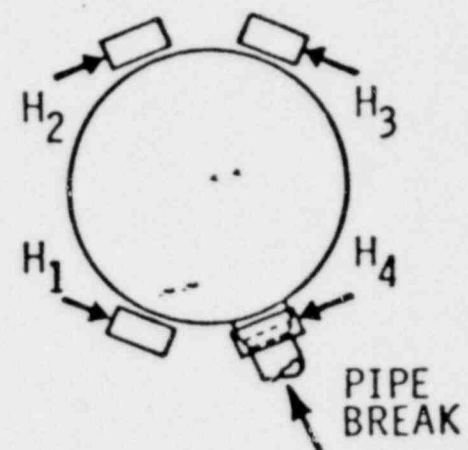
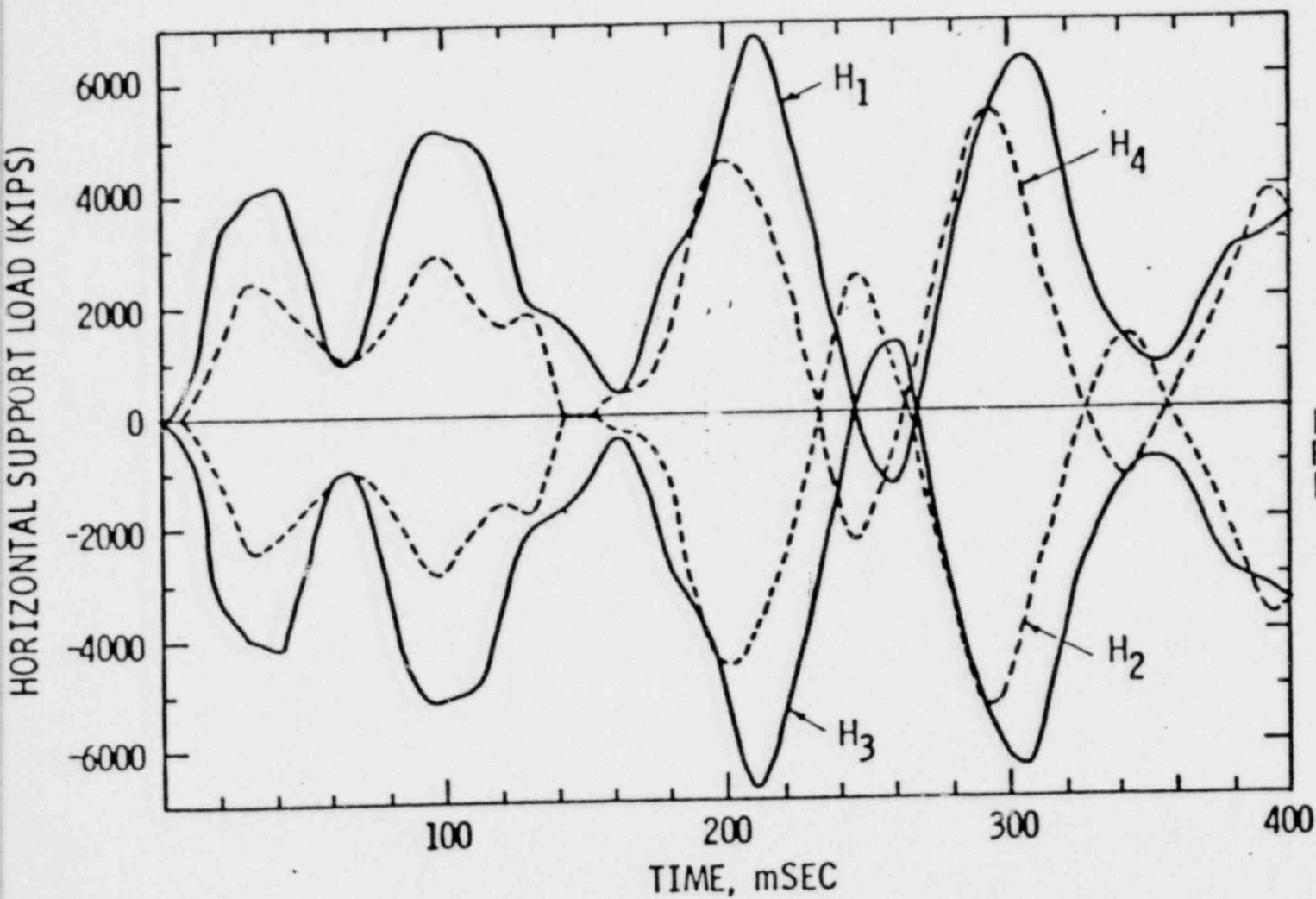
350 IN² COLD LEG GUILLotine (SANDONOFRE)



REACTOR VESSEL LOCA SUPPORTS



350 SQUARE INCH COLD LEG GUILLOTINE RUPTURE
HORIZONTAL SUPPORT LOADS (SANDONFRE)



DIRECTION OF REACTION ON
FIGURE INDICATES
PREDOMINANT SIGN ON PLOT.

TOTAL HORIZONTAL FORCE ON REACTOR CAVITY WALLS (TYP)

