

CONTACT STIFFNESS vs. REALITY?? — HOW SHOULD STIFFNESS BE CHOSEN??

◆ WHEN THE CASK IS PLACED ON THE ISFSI, THERE IS A SMALL LOCAL DEFORMATION UNDER THE PAD.

◆ W = weight of loaded cask = **360,000 lb.**

◆ d = local deflection under cask due to weight

◆ K = contact stiffness = W/d ; or, **$d = W/K$**

◆ **KAHN'S ASSUMPTION ->**

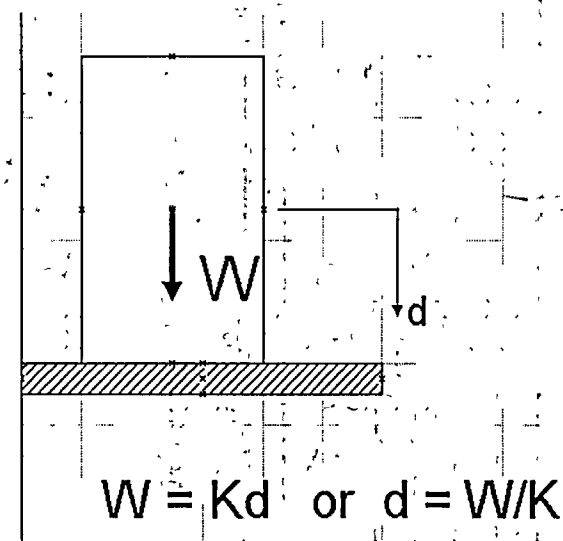
$K = 1,000,000 \text{ lb/in}$;

$d = 360,000/K = 0.36''$

◆ $K = 10,000,000 \text{ lb/in}$; $d = 0.036''$

◆ $K = 45,000,000 \text{ lb/in}$; $d = 0.008''$

◆ $K = 454,000,000 \text{ lb/in}$; $d = .00079''$



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RULEMAKINGS AND
ADJUDICATIONS STAFF

ASLB HEARINGS-Spring, 2002

2 NUCLEAR REGULATORY COMMISSION

Docket No. _____ Official Ex. No. 91
In the matter of _____
Staff _____ IDENTIFIED _____
Applicant X _____ RECEIVED _____
Intervenor _____ REJECTED _____
Other 2 _____ WITHDRAWN _____
DATE 5-7-02 _____ Witness _____
Clerk _____ J