

Calculation of Differential Thermal Expansion

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Coeff. Thermal Expansion 304 SS = 9.6 u in. / in. / degree F

Coef. Thermal Expansion Iron = 6.6 u in. / in. / degree F

u inch = micro inches

Size = 2 inches

Initial Clearance = 1 mil to 3 mils = 1000 to 3000 micro inch

Change in clearance = [size (in.)] x [9.6 - 6.6 (u in. / in. / F)] x
[Δ T (F)]

1 mil change in clearance = 2 in. x 3.0 u in. / in. / F x Δ T (F)

$$\Delta T (F) = \frac{1 \text{ E } 10^{-3} \text{ in.}}{2 \text{ in.} \times 3 \text{ E } 10^{-6} \text{ in./in./F}}$$

$$\Delta T (F) = 166 \text{ F}$$

NUCLEAR REGULATORY COMMISSION

50-424-020-3

Docket No. 50-425-020-3

In the matter of See below Official Exh. No. II-154

Staff	IDENTIFIED	<input checked="" type="checkbox"/>
Applicant	RECEIVED	
Intervenor	REJECTED	
Config. Only		
Contractor	DATE	<u>6-7-95</u>
Other	Witness	<u>STOKES</u>
Reporter		<u>SW</u>

25 JUN 14 1995

DOCKET NO. 50-425-020-3
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