



INDIANA AND MICHIGAN POWER  
D. C. COOK NUCLEAR PLANT  
UPDATED FINAL SAFETY ANALYSIS REPORT

Revision: 17  
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**SUMMARY OF ANALYSES-JET FORCES IMPACTING ON INTERNAL STRUCTURES**

Source	Diameter	Elevation	Jet Travel (ft)	Critical Target	Normal Operating Pressure Psia.	Jet Effect	Remarks
Break #1	29" I.D.	614'-0"	Note <sup>1</sup> (2)		2250	c	
#2	27.5" I.D.	614'-0"	Note <sup>(1)</sup> (2)		2250	c	
#3	29" I.D.	615'-0"±	23.0 <sup>2</sup>	Crane Wall	2250	c	
#4	31" I.D.	612'-9"+	37.0 <sup>(2)</sup>	Operating Deck	2250	d	
#5	31" I.D.	607'-9"±	42.0 <sup>(2)</sup>	Operating Deck	2250	d	
#6	27.5" I.D.	614'-0"	11.0 <sup>(2)</sup>	Crane Wall	2250	d	
#7	29" I.D.	615'-3+	39.5 <sup>(2)</sup>	Operating Deck	2250	c	
#8	31" I.D.	607'-9"±	42.0 <sup>(2)</sup>	Operating Deck	2250	d	
#9	31" I.D.	603' - 8 1/4"	13.0 <sup>(2)</sup>	Crane Wall	2250	d	
#10	27.5" I.D.	614'-0"	14.0	Crane Wall	2250	d	
#11 <sup>3</sup>	29" I.D.	614'-0"	19.5 <sup>4</sup>	Crane Wall	2250	c	
#12 <sup>5</sup>	29" I.D.	614'-0"	20.0	Crane Wall	2250	c	
#13	11" I.D.	620'-0"±	6.0 <sup>(4)</sup>	Pressurizer Slab	2250	d	
#14	30" I.D.	686'-10 3/16"	16.0	Steam Gen. Encl	1020	d	

<sup>1</sup> Jet blocked; restraints prevent further movement.

<sup>2</sup> This break does not require consideration of Jet Forces since LBB methodology adopted. Maintained for historical purposes.

<sup>3</sup> Surge line connection on loop 3 only.

<sup>4</sup> Unit 2 only. LBB accepted for Unit 1.

<sup>5</sup> 14" connection on loop 2 only.



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Source	Diameter	Elevation	Jet Travel (ft)	Critical Target	Normal Operating Pressure Psia.	Jet Effect	Remarks
#15	28" I.D.	635'-0"	4.0	Containment Wall	1020	d	