

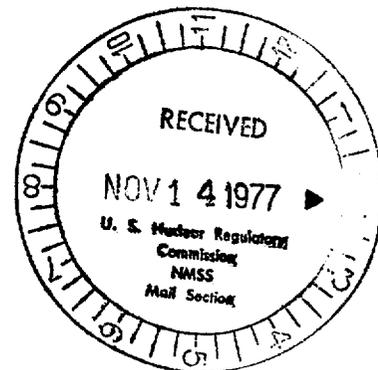
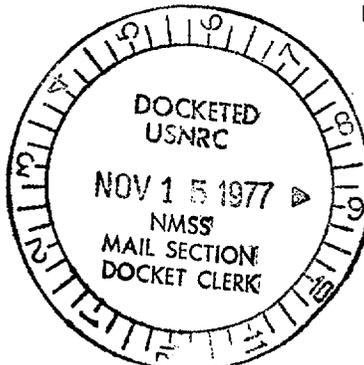


Ames Laboratory ERDA

REGULATORY FILE CY

IOWA STATE UNIVERSITY
Ames, Iowa 50011

September 20, 1977



Mr. Charles Marotta
Transportation Branch
Division of Fuel Cycle & Materials Safety
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Marotta:

SUBJECT: Use of BMI-1 cask by Ames Laboratory

Revision one of the document "Request for Modification of License of Spent Fuel Shipping Cask, BMI-1" has been forwarded to your division under separate cover. Enclosed is the data deck for the KENO program which was used in that analysis. This analysis is based on one half core symmetry and therefore uses only one half of the boral in the cask.

If you have any unanswered question after reviewing the analysis please contact me.

Sincerely,

Donald L. Hull
Reactor Physics Group
Phone: FTS-865-2500

08071

AMES LABORATORY KENO INPUT

Sept 20, 1977

*K=EFF FOR A 2 BY 2 SINGLE ARRAY + BORAL & SPECTRAL REFLECTION

33	300	1	7	0	0	0	0	0	0
17	14	1	1	0	0	0	0	0	0
2	2	2	2	2	2	2	2	2	2
4	4	4	4	4	4	4	4	4	4

1	13100	.060252	1	13100	.060252
2	13100	.058065	2	13100	.058065
2	13100	.001617	2	13100	.001617
2	92841	.000122	2	92841	.000122
3	13100	.057889	3	13100	.057889
3	13100	.001747	3	13100	.001747
3	92841	.000131	3	92841	.000131
4	13100	.058644	4	13100	.058644
4	13100	.001189	4	13100	.001189
4	92843	.000089	4	92843	.000089
5	502	1.0	5	502	1.0
6	13100	.03671	6	13100	.03671
6	5100	.02702	6	5100	.02702
6	6100	.009520	6	6100	.009520

CYLINDER	5	2.682	33.655	33.655
CYLINDER	1	2.72	33.655	33.655
CYLINDER	2	2.802	33.655	33.655
CYLINDER	1	2.840	33.655	33.655
CYLINDER	5	3.195	33.655	33.655
CYLINDER	1	3.233	33.655	33.655
CYLINDER	3	3.315	33.655	33.655
CYLINDER	1	3.353	33.655	33.655
CYLINDER	5	3.683	33.655	33.655
CYLINDER	1	3.698	33.655	33.655
CYLINDER	4	3.772	33.655	33.655
CYLINDER	1	3.810	33.655	33.655
CUBOID	5	4.2037	4.2037	33.655
CUBOID	2	4.2037	4.2037	33.655
CORE BDY	0	8.4074	16.8148	16.8148
CUBOID	6	8.4510	16.8148	16.8148
CUBOID	5	8.4510	38.8874	47.2948

1	1	1	1	1	1
1	1	1	1	1	1
2	2	2	2	2	2
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1

(8071)

As above in listing of cards made by Ames staff in performing KENO calculations of (Post) night shift by C. Munnick, MS5 from Bureau C. Munnick

FROM Ames Laboratory ERDA	DATE OF DOCUMENT	DATE RECEIVED	NO.	
	9/20/77	11/14/77	08071	
TO XXXX C. E. MacDonald	LTR X	MEMO	REPORT	OTHER
	ORIG.:	CC:	OTHER:	
CLASSIF. U	POST OFFICE	FILE CODE:	DATE ANSWERED	
	REG. NO:	71-5957	BY:	
DESCRIPTION: (Must Be Unclassified) Ltr re KENO program used in analysis....	REFERRED TO	DATE	RECEIVED BY	DATE
	Reg file cy CEMacDonald (adv cy)	11/15		
ENCLOSURES:	PDR I&E (3)			
REMARKS				