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October 24, 1978

Mr. R. G. Barnes, Manager
Technical Development
General Electric Uranium
Management Corporation
Mail Code 858
175 Curtner Avenue
San Jose, CA 95125

Dear Bob:

Subject: Evaluation of Extension of LaCrosse BWR Fuel Bundles from Storage Basket

This letter confirms our telephone conversation of yesterday. The calculation requested in your letter to C. L. Brown has been completed. The KENO-II model consisted of:

LaCrosse BWR Fuel (k_∞ = 1.3519)
3.925 wt% ^{235}U
0.565 in. rod pitch
10 x 10 rod bundles
9 bundle array (3 x 3)
8.625 in. c-c spacing between bundles in horizontal direction
7.625 in. c-c spacing between bundles in vertical direction
At least 6 in. of water reflecting array
Bundles infinitely tall

Note that the stainless steel pipes and basket were not included in the model. The calculation gave a k_{eff} of k_{eff} = 0.923 ± 0.007.

A standard QA check-off sheet is attached.

Please call if you need additional calculations or have any questions.

Sincerely,

Dick

R. A. Libby
Sr. Criticality Safety Specialist

RAL/par
Enclosure
cc: CL Brown
ED Clayton
File/Lb

Concurrence E. D. Clayton

E. D. Clayton
Associate Manager
Nuclear Analysis

7812180227

ATTACHMENT: QA Checks

	KENO				
Task	Options	Correct Mixtures	Geometry	Adequate Histories	k_{eff}
LaCrosse Fuel Extension from basket	RJ	N.	NJ	NJ	NJ

QA by RI Scherpelz