

MA/4

APR 10 1980

Docket No. 50-389

Dr. Robert E. Uhrig
Vice President of Nuclear
and General Engineering
Florida Power and Light Company
P. O. Box 529100
Miami, Florida 33152

Dear Dr. Uhrig:

Distribution

NRC PDR	ELD
Local PDR	IE(3)
Docket File	RHVollmer
LWR #2 File	VBenaroya
DFRoss	FSchauer
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VAMcore	JLenahan
WKreger	JHalapatz
MLErnst	NSIC
RPDenise	TIC

ACRS(16)

SUBJECT: USE OF NUKEM 750 AS EXPANSION JOINT FILLER INSIDE CONTAINMENT
(St. Lucie Plant, Unit 2)

We understand that you are using Ameron NUKEM 750 caulk for the circumferential expansion joint between the steel containment and the concrete floor inside the St. Lucie Plant, Unit 2 containment at elevation 23'-0". We are unaware of the performance characteristics of NUKEM 750 in a DBA environment nor if the material has been so qualified. There is evidence of degradation in materials similar to NUKEM 750 in a DBA environment. Given such evidence we are unable to determine that NUKEM 750 will survive a DBA without becoming dislodged and entering the containment sump as debris with the potential of impairing the effectiveness of engineered safety features, the emergency core cooling system and the containment spray system, as addressed in Regulatory Guide 1.82, "Sumps for Emergency Core Cooling and Containment Spray Systems" and Standard Review Plan 6.2.2, "Containment Heat Removal Systems."

We request that you provide a technical basis, supported by analysis or experimental data, for the use of Ameron NUKEM 750 as a qualified caulk to withstand DBA conditions in the Unit 2 containment design. This information should be provided no later than May 30, 1980.

Please inform us within seven days of receipt of this letter if you cannot meet this schedule.

Sincerely,

Original Signed by

Robert L. Baer, Chief
Light Water Reactors Branch No. 2
Division of Project Management

ccs: See next page

OFFICE	DPM:LWR #2	DPM:LWR #2				
SURNAME	RABirkel:ab	RLBaer				
DATE	4/p/80	4/10/80			8004250	038

APR 11 1966

Original Signed by

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P. O. Box 529100
Miami, Florida 33152

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