

March 4, 2003

NOTE TO: File

FROM: Daniel Frumkin, Plant Systems Branch, NRR/**RA**

SUBJECT: FIRE PROTECTION SDP REVISION TASK GROUP CONFERENCE CALL
TEAM D: FIRE BARRIER

TEAM MEMBERS: Daniel Frumkin, NRC - Team Lead
Harold Lefkowitz - Duke Energy
Vern Patton - First Energy

On February 27, 2003, a conference call was held to discuss incorporating fire barrier degradation levels into the proposed fire protection significant determination process (SDP). A brief agenda was transmitted via email to the meeting attendees, by the team lead.

The discussion focused on a proposal developed by Harold and Vern (Attachment 1). The Team will comment on the proposal and provide those comments to Harold for his incorporation.

It is expected that the team will send their comments to Harold via email early next week. This will likely be followed by a conference call.

CONTACT: Daniel Frumkin, NRR/DSSA/SPLB
415-2280

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ATTACHMENT 1

	DEGRADATION LEVEL				
TYPE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
I	Not more than 10% of seal depth is missing, barriers/components not in preventative maintenance program, seal materials not listed in program, No tested or evaluated configuration and not less than 12 inches	Poor quality foam cell structure (Falls with Dow Corning #5 category) of approximately >25% of the surface area, through cracks smaller than 1/8" in seal material that are not more than 50% of the seal depth, 1/8" thru barrier gaps or cracks,	10 to 25% of seal depth is missing, Poor quality foam cell structure (Falls with Dow Corning #6 category) of approximately >25% of the surface area, No tested or evaluated configuration and not less than 11 inches.	Greater than 3/8" cracks in seal material permeate to opposite face, barrier/penetration located in HGL*, No tested or evaluated configuration and not less than 9 inches	No tested or evaluated seal configuration and less than 6 inches of foam, > 50% depth of barrier material removed or never installed, through crack or equivalent diameter greater 1"
II	< 10% depth of barrier material removed or never installed, through crack or equivalent diameter greater 1/8"		10%< but < 25% design depth of penetration material removed or never installed, through crack or equivalent diameter greater 1/2"		No tested or evaluated seal configuration, > 50% design depth of penetration material removed or never installed, through crack or equivalent diameter greater 1".
III	FS-195 growth 1/4" growths to 2 1/2"			loss of 50% of design depth	
IV	Severe tears, loose bands, open bands, outer boot missing	Missing boot both sides	support missing	2-3" 1 hr rating	No ceramic fiber
V	Surface cracks < 1/16" with no noticeable depth penetration, >6 inches, Look at opening up gap size	Through cracks smaller than 1/8" in seal material that are not more than 50% of the seal depth, 1/8" thru barrier gaps or cracks, Pyrocrete may allow larger nuber based on Maryland	Greter than 30% of concrete required depth missing	Large surface area deformations (over 50% of surface) which would cause higher heat absorptions, <4.5 inches	Cracks determined to interfere with structural integrity, <2 inches
VI	Door labeling material not combustible, several small open exposed holes in doors, door gap issues not exceeding 25% of manufacturer's recommended specifications or up to 3/8" gap,	Multiple holes in door on one side of a door surface with less than 1/8" inch opening, door frames with greater than 1/8" thru gap	small screw holes in doors <3/8" on both sides,	multiple holes in door surface with greater than 1 inch opening, door latch not functional, door located in HGL*	door propped open or broken latch,
VII	Damper not in maintenace inspection	Damper frames with greater than 3/8" thru gap, damper can close completely,	Damper will close greater than 95%,	damper located in HGL*, Damper will close > 90%, NFPA-90, No damper at fire barrier in duct work,	damper sealing less than or equal to 90%

Barrier Type			Degradation Level		
I =	Elastomers: low density foams / high density		Level 1 =	No effect to fire rating	
II =	Board / Blanket (Wool or Ceramic Fiber)		Level 2 =	Minor effect to fire rating	
III =	Intumescent Materials		Level 3 =	Moderate effect to fire rating	
IV =	Unique / Boot Seals		Level 4 =	Fire barrier rating is reduced approximately 50%	
V =	Concrete		Level 5 =	Fire barrier or penetration integrity is severely challenged	
VI =	Doors				
VII =	Dampers		* HGL = Hot Gas Layer		
	Hazards evaluations included on each side				