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NRC FORM 699 (9-2003)	U.S. NUCLEAR REGULATORY COM	MMISSION DATE		
CONVERSATION RECORD		03/31/2010		
		TIME		
		8:30am		
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YO	U TELEPHONE NO.	TYPE OF CONVERSATION		
Mark Whittaker, Mirza Baig	803-758-1			
ORGANIZATION		CONFERENCE		
EnergySolutions SUBJECT		· .		
Structural, thermal and containment RAIs on the 3-60B package application		TELEPHONE INCOMING		
Structural, thermal and containment RAIs on the				
SUMMARY (Continue on Page 2)		OUTGOING		
NRC participants: Ata Istar, Neil Day, Jimmy Chang, Pierre Saverot				
The objective of the call regarding structural issues was to try to reconcile differences on the foam properties used in the application for the Model No. 3-60B package from those derived by the staff using the "General Plastics" on-line design				
guide.				
Staff had performed independent calculations to determine the LAST-A-FOAM FR-3700 static and dynamic properties per				
the guidance provided by General Plastics Manufacturing Corporation. Results obtained by staff were notably different				
from the data provided by the applicant and the staff was not able to replicate the data presented in ES Reports ST-557 and ST-551. It should also be noted that such differences in the foam properties may adversely change the stress calculations.				
		_		
Prior to the call, the applicant had provided a document titled "Foam Properties Reconciliation" which concludes that the				
static properties for the corresponding foam density was justified for the LS-DYNA drop analyses. The applicant stated that the dynamic effects are not applicable due to the size of the package and its impact limiters.				
Staff discussed with the applicant the stress/strain				
	disputed the applicant's rationale for using static stress-strain properties and stated that, if dynamic properties were really not applicable, the approach by the manufacturer, General Plastics, would be "wrong" while, at the same time, staff agrees			
with the manufacturer's approach.				
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The applicant also informed the staff that General Plastics had withdrawn all references to ASTM methods due to the fact that they made improvements to the procedures (deviating considerably from ASTM methods) to give a more accurate				
understanding of the material behavior in a dynamic crush situation. Staff requested the applicant to provide the June 1997				
version of the design guide for that foam material				
cause"because the argument on how dynamic properties shall be calculated has to come from the manufacturer.				
Continue on Page 2				
ACTION REQUIRED				
NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE View our	DATE 04/05/2010		
Pierre Saverot ACTION TAKEN		04/05/2010		
ACTION PAREN				
	CICNATURE OF REPONITAVING ACTION	DATE		
TITLE OF PERSON TAKING ACTION	SIGNATURE OF PERSON TAKING ACTION	DATE		

CONVERSATION RECORD (Continued)

SUMMARY (Continue on Page 3)

Staff stated that any material is subject to dynamic conditions and that, at this time, this long-standing issue can be resolved only through a second round of RAIs.

Regarding thermal and containment issues, staff said that it is globally satisfied with 15 responses (out of 20) on containment RAIs and with 6 out of 7 responses on thermal issues. Staff said that the response to RAI 3-3, i.e., maximum normal operating pressure, was not fully satisfactory and that the applicant shall provide equations and related parameter values. After discussions, staff accepted the response on the fire shield temperature. Staff also said that (i) it needs calculations packages TH-22 and TH-23 to complete the thermal review, and (ii) it must be certain that melting and auto-ignition will not occur under NCT and HAC.

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