















Design Comparis	son to HI-STA	R 100	
Feature	HI-STAR 60	HI-STAR 100	
Weight	~60 t	~100 t	
MPC	no	yes	
Bolted Lids	1		
Containment Boundary	Cryogenic Steel (Nickel Steel)		
Gamma and Neutron Shielding	Layered Shells and Holtite		
Basket Construction	Honeycomb with all contiguous edges welded		
Basket Structural Material	Stainless Steel		
Neutron Absorber	Metamic enclosed in SS Sheathing		
Flange Joint Configuration	Protects against lateral impacts		
Impact Limiter	Temperature-Insensitive Crushable Material (e.g. Aluminum Honevcomb)		

24 (32) ." 68 3/4"	
191 1/8"	
5/16" (9/32")
b 1680 lb	
2 11/16"	
	b 1680 lb 2 11/16"



Lessons Learned

- · The submittal will contain lessons learned from other transport licensing applications
 - Acceptance Review of HI-STAR 180
 - RAIs on HI-STAR HB
- July 11, 2007

HOLTEC

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		00 16	515			
	Deceleration (g's) Total Crush Depth (inch)	Impact Duration (milli-seconds)				
Case I.D.	Measured	Predicted	Measured	Predicted	Measured	Predicted
a. End Drop	53.9	56.65	10.6	10.35	37.2/40.7	44
B. C.G Over- Corner	38.8	38.96	9.82/15.25	18.46	61	62.8
C. Side Drop	45.7	48.62	12.5	12.86	53.1	50
D. Slap- Down						
Primary Secondary	49.0	49.48	10.7	10.64	44.4	45























Thermal Evaluation	ons (cont.)	HOLTE	C NAL
HI-STAR 60 MAXIMUM NO	RMAL TRANSPOR	T TEMPERATURES	
	Temperature	Temperature	
	°C (°F)	Limit °C (°F)	
Fuel Cladding	358 (676)	400 (752)	
Containment Shell	162 (324)	204 (400)	
Neutron Shield	140 (284)	149 (300)	
Lid Seals	133 (271)	204 (400)	
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