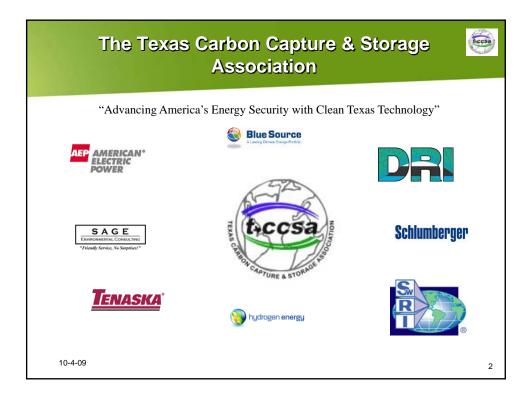
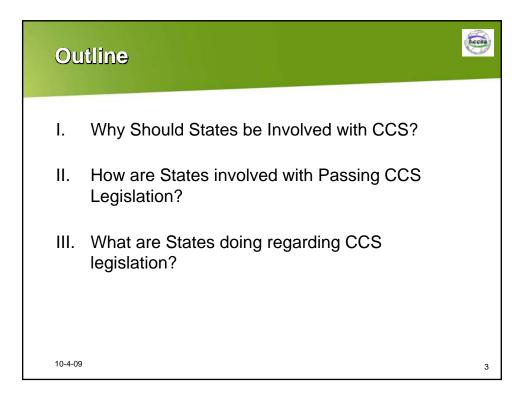


Passing Geologic Storage Legislation: Perspectives, Problems, Opportunities and Challenges

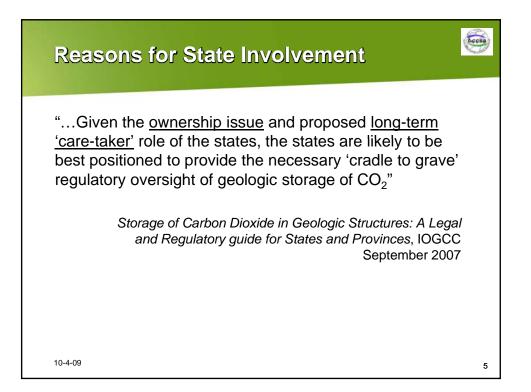
> Interstate Oil & Gas Compact Commission Annual Meeting: Biloxi, Mississippi October 6, 2009

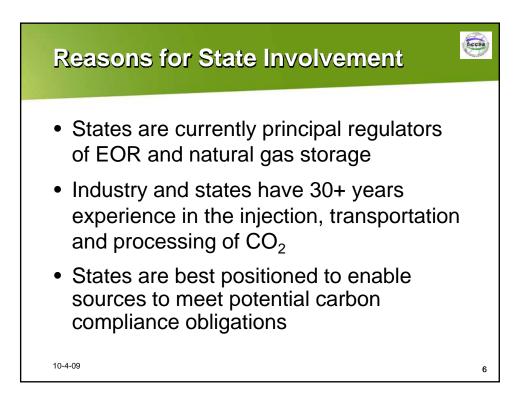
Darrick W. Eugene General Counsel Texas Carbon Capture & Storage Association



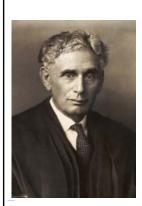








States: Laboratories of Innovation



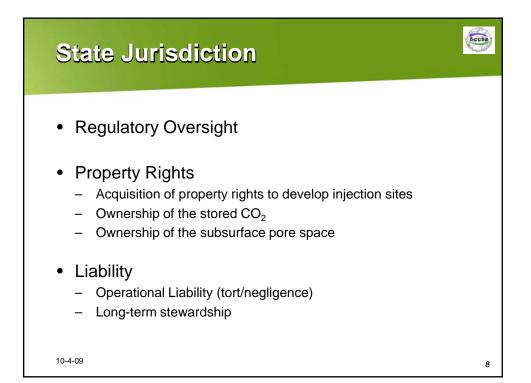
"It is one of the happy incidents of the federal system that a single courageous state may, if its citizens choose, serve as a laboratory; and try novel social and economic experiments without risk to the rest of the country.")

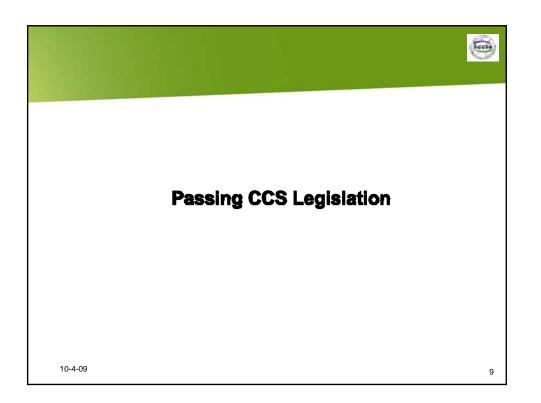
> Justice Louis D. Brandeis, U.S. Supreme Court (1916-1939) in New State Ice Co. v. Liebmann, 52 S.Ct. 371, 378 (1932)

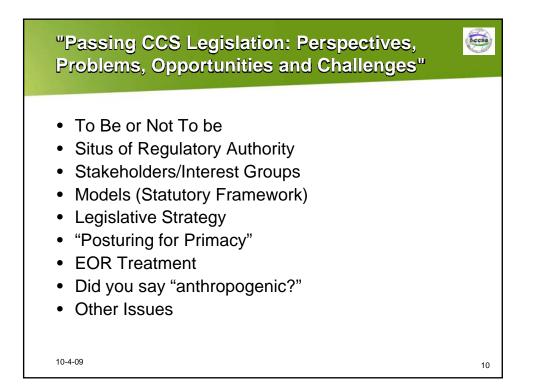
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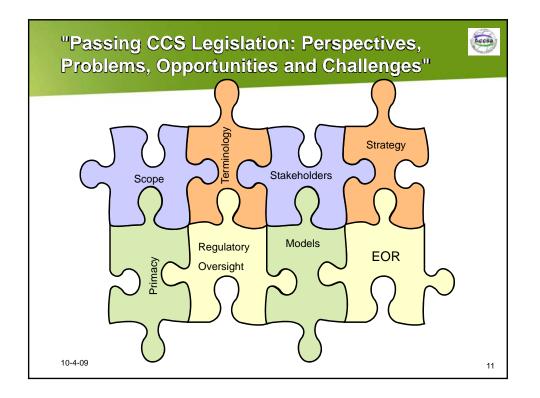
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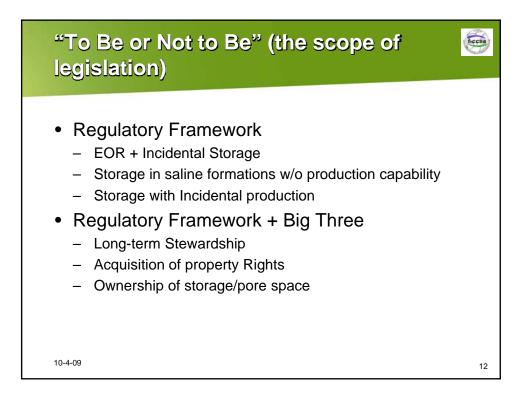
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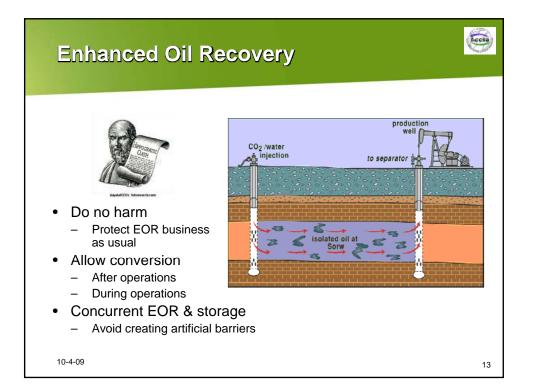


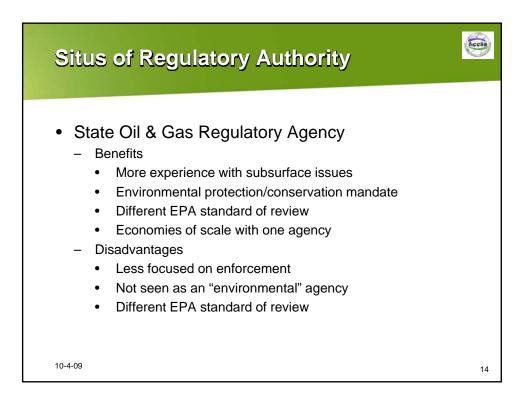


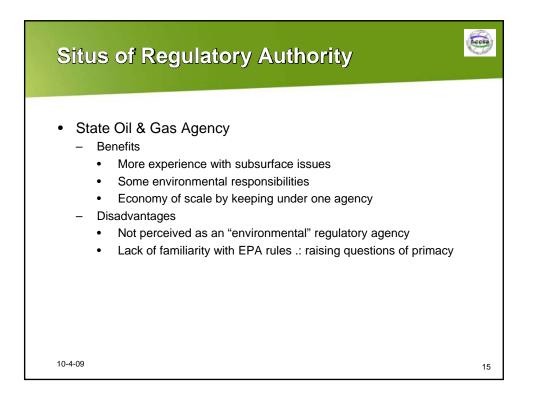


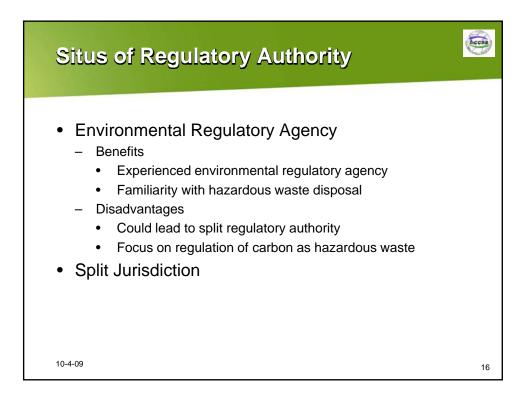




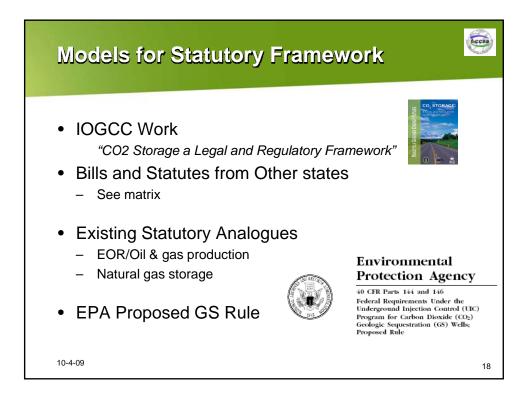


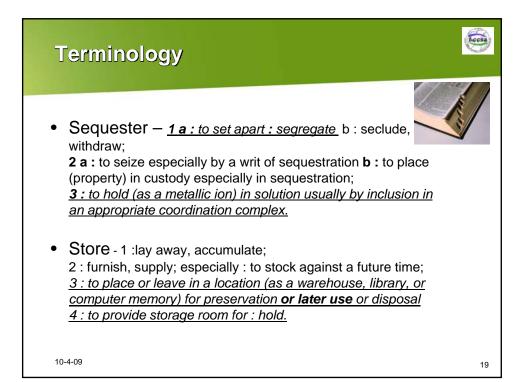


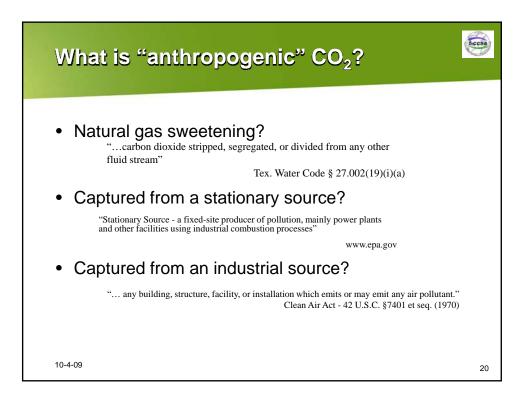


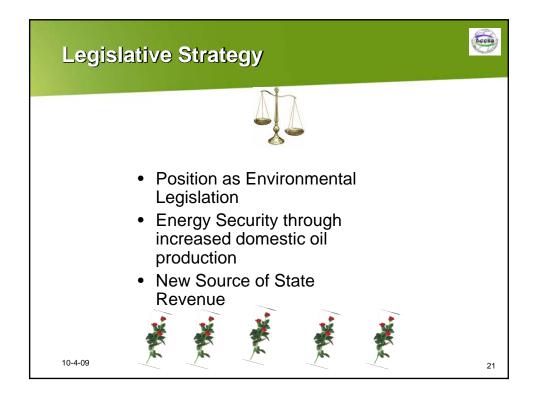


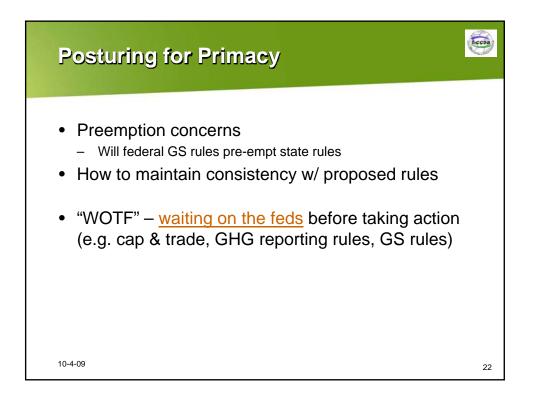


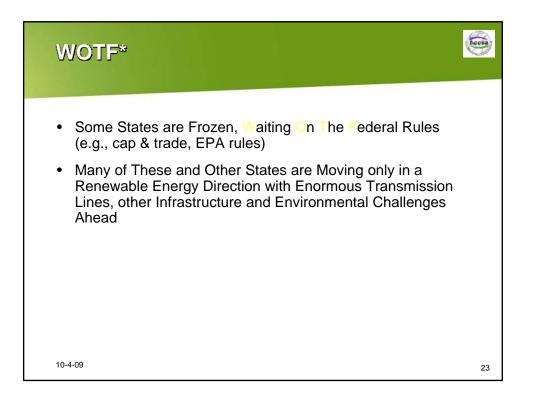


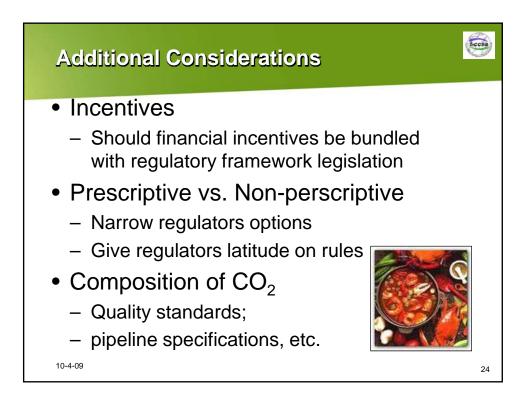


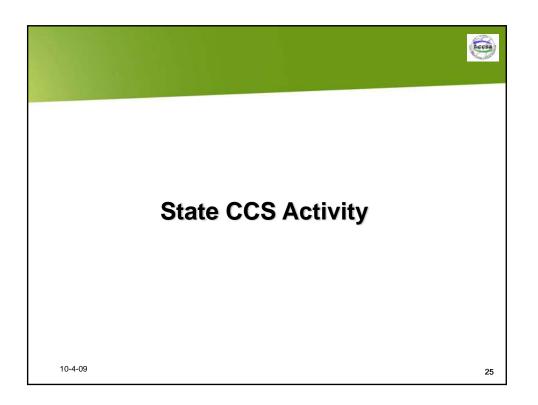




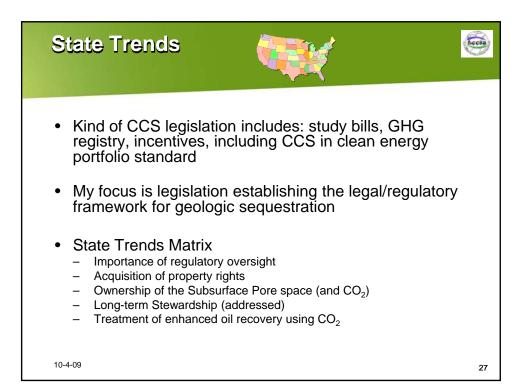


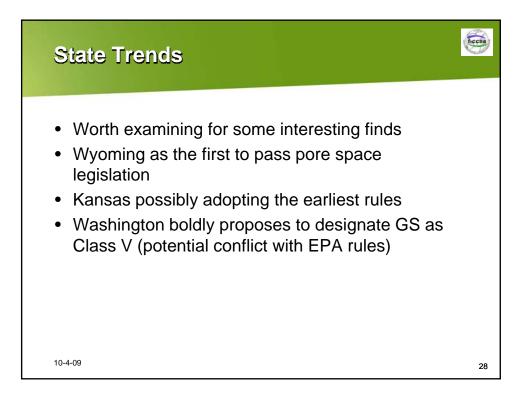






State A	Activity		
• Feds v	/s. States Federal Gov't	States	
	 2001 Voluntary Policy Energy Policy and Conservation Act of 2005 & 2007 Lieberman/Warner Dingell Boucher Economic Stabilization Bill EPA Proposed GS Rules 	 Washington Wyoming Kansas Utah North Dakota Texas Oklahoma Ohio IOGCC WCI 	
10-4-09		• Etc.	26





	AGENCY		EMINENT DOMAIN/ UNITIZATION	SUBSU OWNEF		LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY
	O&G	ENV		Surface Estate	Mineral Estate		
WY HB 90 HB 89		⊠ DEQ	Operator must demonstrate acquisition of all legal rights	☑ HB 89		Closure/Post Closure Working Group to address related issues	EXCEPTED Conversion to GS allowed upon cessation of O&G activity
ок		SB 176	5 - Study Bill. St	udy to be	completed	by December 1, 20	008???
KS HB 2419/ Proposed Rules	⊠ KCC life		Operator must certify that legal right to property has been secured	N	A	Post-injection, closure period determined by KCC; if approved future remediation/monitoring performed by state	Defined term In statute includes EOR; rules do not address.

STATE TRENDS – 2007/08 Adopted Legislation/Regulation

	AGENCY DOMAIN/		DOMAIN/ OWNERSHIP ST		LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY
	O&G	ENV				
UT SB 202	Multiple task forc recomme & oversig	e to end rules	NA	To be considered in rulemaking	To be considered in rulemaking	EXCEPTED Conversion recommended
WA Dept. of Ecology 5 years		⊠ Class V	NA	NA	Designates Post- Closure period w/o addressing liability; does not define set period; financial assurance to cover remediation, plugging or abandoment	NA
10-4-09						

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	AGE	NCY	EMINENT DOMAIN/ UNITIZATION	SUBSU	2 &) IRFACE IRSHIP	LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY
	O&G	ENV		Surface Estate	Mineral Estate		
WY HB 57				☑ "sort of"			
HB 58				(The injector to be the owr injected mate including CO	ner of erials		
HB 80	Makes owner- ship decision	Makes environ- mental decision	YES "Corresponding Rights"				

	TATE TRENDS – 2009									
	AGE	NCY	EMINENT DOMAIN/ UNITIZATION	DOMAIN/ SUBSUR		LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY			
	O&G	ENV		Surface Estate	Mineral Estate					
ND SB2139				Pore space can not be severed from surface estate						
SB 2095	V	In consul- tation with the State Dep. Of Health	YES	N (Storage opera and liability for into and stored reservoir.)	ator has title to CO2 injected	Transfer to the state 10 years after closure	EXCEPTED Conversion to GS allowed during operations*			
LA HB 661	V		YES	NA (Injected carbon dioxide deemed the property of the party that owns such CO2)		Transfer to the state 10 years after closure	Allows conversion of an existing EOR operation into a storage facilitytaking into consideration prior approvals regarding EOR operations.			

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STATE TRENDS – 2009 Adopted Legislation/Regulation

	AGENCY		EMINENT DOMAIN/ UNITIZATION	SUBSU	2 &) RFACE RSHIP	LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY
	O&G	ENV		Surface Estate	Mineral Estate		
TX SB1387	Ø		Provides for multi- agency study to be completed by December 1, 2010	NA (Injected CO2 presumed to be the property of the injector)		Provides for agency study to be completed by December 1, 2010	EXCEPTED Injection wells may be permitted for multiple purposes and if authorized as or converted to CO2 storage wells then storage rules apply
MT SB 498	Ŋ		YES	⊠ "sort of"		Transfer to the state possible 30 years after closure.	EXCEPTED Conversion allowed during operations
WV HB 2860		Ŋ	Working group study due July 2011	NA		Working Group study due July 2011	EXCEPTED Conversion allowed after cessation of operations

STATE TRENDS – 2007/08 Proposed Legislation/Regulation									
	AGENCY		EMINENT DOMAIN/ UNITIZATION	SUBSU	2 &) IRFACE IRSHIP	LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY		
	O&G	ENV		Surface Estate	Mineral Estate				
IOGCC Draft Legislation	☑ Preferred	Ø	YES	White pap suggests estate		Transfer to State	EXCEPTED Conversion to GS allowed during operations		
MT SB 66	⊠ BER		NA	☑ Similar to WY		Insurance for Post Closure Period of 75 Years	Conversion to GS allowed during operations		
NM Discussion Draft	⊠ EMNRD		OGD may issue orders requiring unitization	Ø		NA	EXCEPTED Conversion to GS allowed during operations		

NA = Not addressed

34

STATE TRENDS – 2009
Proposed Legislation/Regulation



	AGE			SUBSU	2 &) IRFACE ERSHIP	LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY
	O&G	ENV		Surface Estate	Mineral Estate		
MI SB 775		⊠ DEQ	YES For Local Governments	NA (Title to Injected CO2 transferred to the State with all associated liabilities.)		Transfer to the state 10 years after closure	EXCEPTED Conversion to GS allowed during operations
NY A 8802		Ø	Yes	Ø		NA	
				Injected 0 owned by operator			
	_						-
10-4-09						NA = Not add	ressed 35

STATE T Propose				gulat	ion		Keek	
	AGENCY		AGENCY EMINENT DOMAIN/ UNITIZATION			2 &) IRFACE IRSHIP	LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY
	O&G	ENV		Surface Estate	Mineral Estate			
ND Proposed Rules Proposed 2009 Bill	Borrows IO framework f Regulatory Agency		YES	N	A	Transfer to State	NA	
TX Proposed 2009 Bill	⊠ Preferred	Ø	NA	N	A	Early Mover limits	EXCEPTED Conversion to GS allowed during operation	
OK - 2009 Discussion Draft	⊠ DEQ	⊠ OCC	OGD may issue orders requiring unitization	N	A	NA	EXCEPTED Conversion to GS allowed during operations	
10-4-09						NA = Not add	ressed 3	

STATE TRENDS – Failed or Not Adopted - 2008



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	AGE	NCY	Y DOMAIN/ SUBSURFACE SUBSURFACE SUBSURFACE		LONG-TERM STEWARDSHIP & LIABILITY	ENHANCED OIL RECOVERY	
	O&G	ENV		Surface Estate	Mineral Estate		
OK - 2008 SB 1765 (Introduced)	Ø	Ø	YES	Ø		Transfer to State	EXCEPTED Conversion to GS allowed during operations
MT - 2008 HB 24 SB 218		⊠ BER	YES (pipelines)	N	A	NA	EXCEPTED Conversion to GS allowed during operations
MI SB 707		⊠ DEQ	NA	N	A	NA	Defined term includes EOR
CA AB 705	⊠ DoC		NA	To be consi rulemaking		To be considered in rulemaking	EXCEPTED Conversion not addressed

STATE TRENDS – Failed or Not Adopted - 2009

NA	EXCEPTED Conversion to GS
NA	
	allowed during operations
NA	EXCEPTED Conversion to GS allowed during operations
	NA

