

AFCI Texas Consolidated Interim Storage Project



The Opportunity

A complete solution to a problem that has defied solution for over 55 years

- Provide basis for Continued Storage
- Provide Basis for Reinstatement of fee
- Mitigate damage claims
- Supportive Federal, State and local officials

Economically efficient solution

- Transport SNF one time for interim storage and potential final disposition
- Retain flexibility to accommodate future policy choices



Why Now?

•United States is running out of options

Continued Storage Rule

- New NRC rule will be challenged
 - DC Circuit unsympathetic to vague statements about government's plan to dispose of waste
 - Our plan will include final disposition option
- No Continued Storage Rule—no new reactors
 - A dead end for the US nuclear industry

Waste Fee Litigation

- Zero fee puts pressure on federal budget
- Remaining reactors will eventually pay more

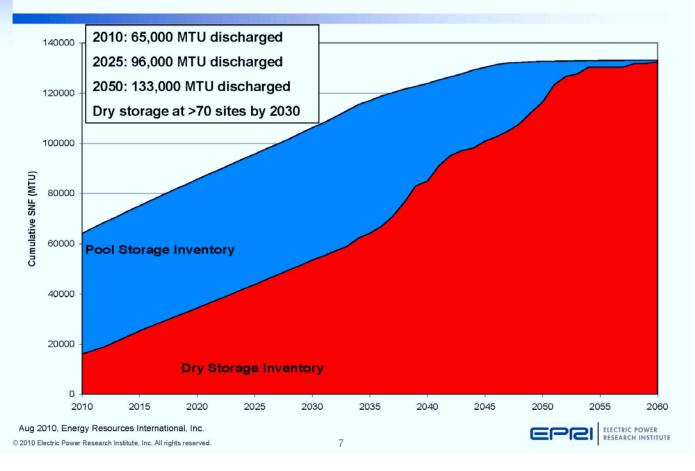
Damage Suits

- \$50 billion in utility claims
- No meritorious defenses



SNF—A Growing Issue

Cumulative U.S. Commercial Spent Nuclear Fuel Inventories – 2010 to 2060 (assumes no nuclear expansion, 60-year life)





- No disposal site
- ■No recycling UIRS
- No fast reactors
- Spent fuel pools filling up
- No consolidated interim storage



The Opportunity

A complete solution to a problem that has defied solution for over 55 years

- Provide basis for Continued Storage
- Provide Basis for Reinstatement of fee
- Mitigate damage claims
- Supportive Federal, State and local officials

Economically efficient solution

- Transport SNF one time for interim storage and final disposition
- Retain flexibility to accommodate future policy choices



Our Project—Milestones

Since 2007:

- State signed letter of intent to make state owned land available for consolidated interim storage
- Loving County approved hosting concept
- Joe Barton taking the lead, other members and Senators on board
- TCEQ issued report calling for consolidated storage
- Texas House Speaker issued interim charge directing study
- Governor Perry issued letter recommending action
- Substantial Project Development Activity



Texas Letter of Intent

GENERAL LAND OFFICE JERRY PATTERSON, COMMISSIONER

Non-Binding Letter of Intent to Negotiate a Lease of State-Owned Land

August 30, 2011

TEX

Mr. Bill Jones AFCI Texas, LLC. 100 Congress Avenue, Suite 2000 Austin, Texas 78701

RE: Commercial Lease for Interim Storage of Spent Nuclear Fuel

Dear Mr. Jones:

The State of Texas, operating through the General Land Office/School Land Board ("GLO") on behalf of the Texas Permanent School Fund ("PSF"), owns and controls approximately 730,000 surface acres throughout the state. You have approached us representing AFCI Texas, LLC., ("AFCI") in an effort to obtain a long-term lease on PSF lands. AFCI or its successors and assigns, proposes to construct and maintain a storage facility capable of storing spent nuclear fuel ("SNF") on an interim basis. Such facility would not be for the storage of low-level nuclear waste or naturally occurring radioactive material.

This letter expresses the GLO's interest in negotiating on behalf of the PSF, a surface lease for the proposed interim storage of SNF. The first step in the negotiation process would be the identification of a potentially suitable site on available PSF land mutually agreeable to the GLO and AFCI. The second step would be the preparation and presentation to the GLO by AFCI of additional business plan information as requested during lease negotiations. Additional business plan information may include: a regulatory survey of required permits and/or potential state federal approvals, an analysis of the market (including the competitive environment, and the proposed management and operation of any facilities). GLO may also request additional information pertaining to: the proposed ownership structure, a detailed budget, anticipated financing for construction, start-up costs, costs for on going operations, and a timeline for each step of the process. The GLO will work with you to establish what information requested or any other expenses.

The GLO intends to initiate site selection and provide to AFCI a list of potential sites for consideration. At the time of this letter, no specific sites have been discussed by either party.

> Stephen F. Austin Building + 1700 North Congress Avenue + Austin, Texas 78701-1495 Post Office Box 12873 - Austin, Texas 78711-2873 512-463-5001 + 800-998-4GLO www.glo.statc.tc.us

GLO Letter of Intent, Page 2

Either the GLO or AFCI may (i) refuse to initiate, or (ii) may terminate, the negotiation process at any time and for any reason without any cost, expense or obligation of any kind to the other, by written notice.

THIS LETTER IS NOT A CONTRACT. IT IS MERELY A NON-BINDING EXPRESSION OF AN INTENT TO NEGOTIATE FOR A POSSIBLE FULLY-INTEGRATED CONTRACT THAT IS ABSOLUTELY SUBJECT TO THE FORMAL APPROVAL AND EXECUTION ON BEHALF OF BOTH PARTIES.

Thank you,

THE STATE OF TEXAS, Operating by and through the Texas General Land Office on Behalf of The Permanent School Fund

Rene D. Truan

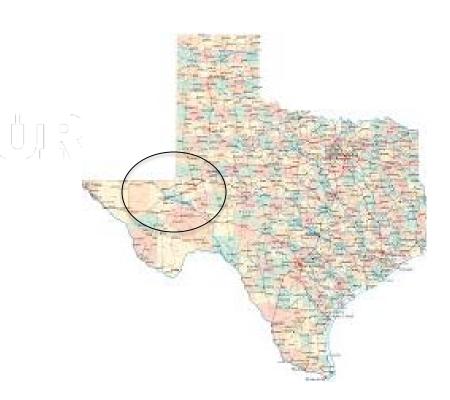
Deputy Commissioner Professional Services Division



Western Texas—Potential Sites

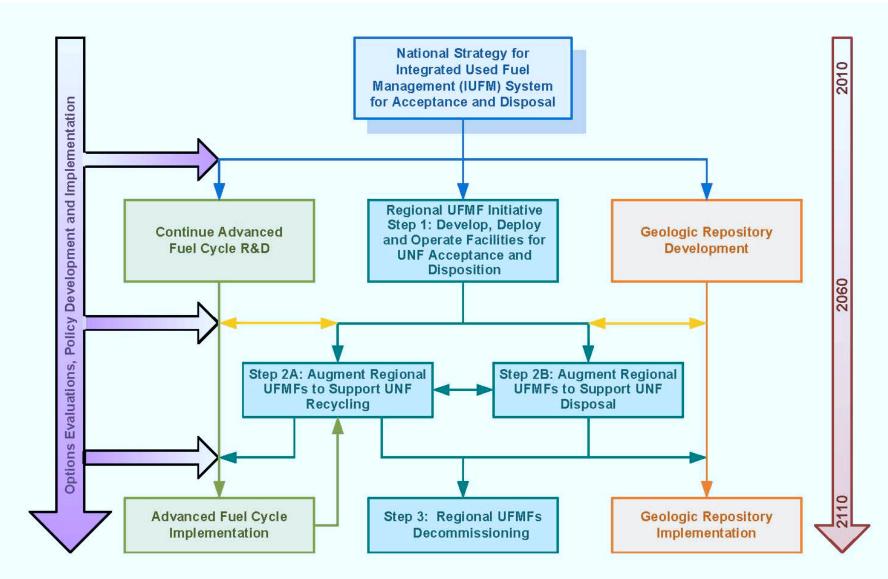
Facts—

- Near WIPP, URENCO, WCS
- Shares WIPP geology
- Sparse population
- Pantex, Los Alamos,Sandia nearby





A Relationship With a Future





Centralized Storage Best Option

Scenarios (153,000 MT)	Cost Range* (Billions \$2009)	Mean Cost (Billions \$2009)
Yucca Mountain (disposal)	\$91-\$117	\$103
Centralized Storage (disposal)	\$23-\$81	\$47
On-site Storage (disposal)	\$70-\$147	\$101
On-Site (500 years-no disposal)	\$84-\$275	\$139
*Source: GAO, adjusted for default costs		



Our Proposal:

- Consolidate interim storage of all SNF on lands owned by the State of Texas
- Establish a public/private partnership to manage the facility
 - Performance based contracts
 - Public transparency and accountability
 - Public safety, security and cost-based standards
- Assure long-term, consistent funding to meet requirements
 - Enforceable contracts with the federal government for design, construction, and operation

Defined pathway to final disposition

- Clear, upfront authority to take steps required for disposition, subject to NRC oversight
- Retain flexibility to change course in response to science, public consensus and changing needs



Project Plan

1	Project Management	1,892.53	10/1/14	12/31/21							
2	Stakeholder Involvement	1,893.00	10/1/14	12/31/21							
3	Scientific Consultants	327.00	10/1/14	12/31/15							
4	Economists	327.00	10/1/14	12/31/15							
5	Site Option	1.00	10/1/14	10/1/14	-	_					
6	Geotech and Enviromental	0.00 521.00	10/1/14 1/1/16	10/1/14 12/29/17							
7	Preliminary Design/License Preparation	521.00	1/1/16	12/29/17			 				
8	Site Acquisition	1.00	1/1/18	1/1/18							
9	Rail spur design	521.00	1/1/16	12/29/17				\mathbf{X}			
10	NRC filing	1.00	1/16/17	1/16/17			~	$\backslash \backslash$			
11	Detailed design	521.00	1/2/17	12/31/18			 ~ _		-		
12	State and local reviews	521.00	1/2/17	12/31/18							
13	NRC license received	1.00	1/1/19	1/1/19							
14	Site preparation	64.00	1/2/19	4/1/19							
15	Site water, power, sewer installation	66.00	4/1/19	7/1/19							
16	Rail Spur Construction	651.00	1/2/19	6/30/21							
17	Rail spur ROW acquisition	65.00	1/2/19	4/2/19				Y			
18	Rail spur grading	64.00	1/1/19	3/29/19							
19	Rail spur bridge construction	174.00	1/1/19	8/30/19							
20	Rail spur ballast, crosstie, rail installation	478.00	9/2/19	6/30/21							
21	Building Construction	568.00	7/1/19	9/1/21							
22	Building slabs	45.00	7/1/19	8/30/19							
23	Building shell construction	174.00	9/2/19	4/30/20							
24	Building finish out	88.00	4/30/20	8/31/20							
25	Equipment installation	262.00	9/1/20	9/1/21							
26	Storage area slab	110.00	7/1/19	11/29/19							
27	Perimeter fencing	65.00	12/2/19	2/28/20						_	
28	Security System	132.00	2/28/20	8/31/20							
29	Final grading and landscaping	44.00	9/1/20	10/30/20							
30	System startup/testing	88.00	9/1/21	12/31/21							
31	Commence Operations	1.00	1/3/22	1/3/22							
				-							



Sources of Funds

Funding	Totals	%	2014	2015	2016	2017	2018	2019	2020	2021
Carryover surplus (defic	\$ 43,647,115		\$ -	\$ -	\$ 42,088	\$ -	\$ 11,904,662	\$ 16,080,492	\$ 15,619,873	\$ -
Equity	\$ 32,442,499	10.0%	\$ 1,727,700	\$ -	\$ 10,928,829	\$ 19,785,970	\$ -	\$ -	\$ -	\$ -
Grants	\$ 79,192,311	24.4%	\$ -	\$ 1,727,700	\$ 1,685,613	\$ 12,656,529	\$ 20,537,836	\$ 16,362,007	\$ 16,822,626	\$ 9,400,000
Host Contract Revenue	\$ -	0.0%		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt	\$ 212,790,179	65.6%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 54,142,821	\$ 158,647,358
Total Required	\$ 324,424,989	100.0%	\$ 1,727,700	\$ 1,685,613	\$ 12,656,529	\$ 20,537,836	\$ 16,362,007	\$ 16,822,626	\$ 86,585,320	\$ 168,047,358
Surplus (deficit)			\$ -	\$ 42,088	\$ -	\$ 11,904,662	\$ 16,080,492	\$ 15,619,873	\$ -	\$ -



362,404

217,443

869,770

652,328

4,421,331

1,326,399

5,747,731

579,847 \$

621,264 \$

962,131 \$

704,100 \$

860,203 \$

2,867,342 \$

3,727,545 \$

1,069,817

1,146,233

1,775,132

1,299,064

5,290,246

1,587,074

6,877,320

2,319,387

Uses of Funds through NTP

n	Iter	of.	Bud	
n	iter	zet	виа	

Budget Item					_										
	Overnig	ht Cost		Inflation Adj	1										
First Stage															
Project Management	\$	1,000,000	\$	1,012,500	\$	500,000	\$ 512,500								
Stakeholder Involvement	\$	1,130,000	\$	1,144,125	\$	565,000	\$ 579,125								
Scientific consultants	\$	200,000	\$	202,500	\$	100,000	\$ 102,500								
Economists	\$	200,000	\$	202,500	\$	100,000	\$ 102,500								
Site Option	\$	64,000	\$	64,000	\$	64,000									
Subtotal	\$	2,594,000	\$	2,625,625	\$	1,329,000	\$ 1,296,625								
Contingency 30%	\$	778,200	\$	787,688	\$	398,700	\$ 388,988								
Total First Stage	\$	3,372,200	\$	3,413,313	\$	1,727,700	\$ 1,685,613								
Second Stage															
Second Stage															
Pre-License Submittal															
Project Management	\$	3,000,000	\$	3,151,875				\$ 2,101,250	\$	1,050,625					
Stakeholder Involvement	\$	1,500,000	\$	1,575,938				\$ 1,050,625	\$	525,313					
Geotech and Enviro	\$	2,000,000	\$	2,101,250				\$ 1,400,833	\$	700,417					
Prelim Design, License Prep	\$	7,400,000	\$	7,774,625				\$ 5,183,083	\$	2,591,542					
Site Acquisition	\$	6,400,000	\$	6,892,100					\$	6,892,100					
Subtotal	\$	20,300,000	\$	21,495,788				\$ 9,735,792	\$	11,759,996					
Contingency 30%	\$	6,090,000	\$	6,448,736				\$ 2,920,738	\$	3,527,999					
Totals	\$	26,390,000	\$	27,944,524				\$ 12,656,529	\$	15,287,995					
License Application Review															
Project Management	\$	2,500,000	\$	2,432,684							Ś 1,	009,585	\$:	1,060,695	\$
Stakeholder Involvement	ş	1,500,000	ŝ	1,661,528					\$	201,917		605,751		636,417	
NRC fees	ś	16,000,000	ŝ	17,722,961					\$	2,153,781		461,344	-		Ś
Technical and legal support	š	6,000,000	ŝ	6,646,110					š	807,668		423,004			
Detailed design	š	4,500,000	š	4,984,583					š	605,751		817,253		1,909,251	
State and local reviews	š	500,000	ś	538,445					ś	269,223		269,223	Ŷ.	1,505,251	Ŷ
Subtotal	š	31,000,000	ś	33,986,312					š	4,038,340		586,159	\$ 13	2,940,481	s
Contingency 30%	Ś	9,300,000	ŝ	10,195,893					ŝ	1,211,502		775,848	-	3,882,144	
Totals	ŝ	40,300,000	ŝ	44,182,205					ŝ	5,249,842		362,007			
Initial Construction/Preop															
Project Management	\$	1,400,000	\$	1,649,664											\$
Stakeholder Involvement	\$	1,500,000	\$	1,767,497											\$
Technical and legal support	\$	2,323,000	\$	2,737,264											\$
System startup/testing	\$	1,700,000	\$	2,003,163											\$
Subtotal	\$	6,923,000	\$	8,157,588											\$ \$
Contingency 30%	\$	2,076,900	\$	2,447,276											Ş
Totals	\$	8,999,900	\$	10,604,864											\$
Total Second Stage	\$	75,689,900	\$	82,731,593											



Project Risk Mitigation

Risk	Mitigation
Delay in appropriation	Raise private funds to provide reserve
Delay in lease	Begin on private lands
Delay in DOE contract	Direct contracts with dead plant society members



The Opportunity

A complete solution to a problem that has defied solution for over 55 years

- Provide basis for Continued Storage
- Provide Basis for Reinstatement of fee
- Mitigate damage claims
- Supportive Federal, State and local officials

Economically efficient solution

- Transport SNF one time for interim storage and potential final disposition
- Retain flexibility to accommodate future policy choices



Our Project—Milestones

Since 2007:

- State signed letter of intent to make state owned land available for consolidated interim storage
- Loving County approved hosting concept
- Joe Barton taking the lead, other members and Senators on board
- TCEQ issued report calling for consolidated storage
- Texas House Speaker issued interim charge directing study
- Governor Perry issued letter recommending action
- Substantial Project Development