	А	В	С	D	E	F	G	Н
1	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)	EXECUTIVE SUMMARY (& POLICY)	TECHNOLO GY TRANSFER	2007, 2008, 2009 PORTFOLIO ASSESSMEN T	METRICS & BENEFITS ASSESSMEN T	2010 PROGRAM	Environment al and Prior Recommend ation Review	EDITORIAL
3	2007	X	X		X			
4	2007		X		, , , , , , , , , , , , , , , , , , ,			
5	2009		X				Х	
6	2010	X	X	Х	Х	Χ	X	
	COMMENTS FROM DON SPARKS:						, ,	
	The following areas are of importance:							
	Unconventional Resource					Х		
	Resource Assessment					Х		
12	a. Resource assessment (p. 28)					Х		
13	b. Geosciences (p. 28)					Χ		
	c. Basin Analysis & Resource Exploitation (p. 29)  2. Early Stage Research or novel concepts (p. 30)  3. Develop and execute innovative approaches(p. 30)					X X X		
	Drilling/completion/water management					X		
18	d) drilling (p. 29)					X		
19	e) stimulating and completion (p. 29)					X		
20	f) water managment (p. 29)					X		
21	i) environmental (p. 30)					Х		
22	Small Producers					Χ		
23	Methods to reduce field operating costs					Χ		
24	Water Managment (p. 36)					Х		
25	Reducing production related costs (p. 36)					Χ		
26	Cost effective intelligent well monitoring (p. 36)					Χ		
27	Creative capture & reuse of industrial waste (p. 37)					Χ		
28						X		
29	How to extend economic life (p. 36)					X		
30	Improved methods for well completions (p. 36)					Χ		
31	Leverage existing wellbores to maximize additional hydrocarbons (p. 37)					X		
32	Novel concepts to increase production (p. 37)					Χ		

	А	В	С	D	E	F	G	Н
	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)	EXECUTIVE SUMMARY (& POLICY)	TECHNOLO GY TRANSFER	2007, 2008, 2009 PORTFOLIO ASSESSMEN T	METRICS & BENEFITS ASSESSMEN T	2010 PROGRAM	Environment al and Prior Recommend ation Review	ADMIN & EDITORIAL COMMENTS
1				l				
33								
34	COMMENTS FROM SANDRA MARK:							
35	General comments:							
	For many of the technology areas, the term shale gas is too restrictive.						х	
37	There is a need for research on oil shales, and we still have not figured out tight sands (both oil and gas).						X	
	For virtually every instance, I would do a search (shale gas) and replace with "oil and gas shales and tight							
38	sands."						X	
	So the DOE has been spending lots of money to help figure out how to produce gas from the Piceance, even as the industry is running away screaming because of	V						
	environmental restrictions there.  Another examplethere are lots of deals out there right now, and most companies I know aren't even looking at those on Federal lands. I believe that we need to keep reminding the DOE and politicians of these sorts of	X						
40	problems.	X						
41	5.55.5.110.							
	Specific comments:							
	Page 25. Frontier Area, Frontier category. Confusing text, and is it 10 or 15%? It probably needs to be higher, whichever it is.					X		
	Page 29, e iii. I couldn't find anyone that knows what							
	"domain stimulation" methods means.					X		
	Page 32. The big hole in Drilling projects bothers me. Surely there is need for research. I'd like to see what projects the PAC thought were "not a critical as needs in other areas". A few come to mind, that would also be of special interest to small producers:					X		

	А	В	С	D	Е	F	G	Н
	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)	EXECUTIVE SUMMARY (& POLICY)	TECHNOLO GY TRANSFER	ASSESSMEN	METRICS & BENEFITS ASSESSMEN T	2010 PROGRAM	Environment al and Prior Recommend ation Review	ADMIN & EDITORIAL COMMENTS
1				Т				
46	Pushing the limits of coiled tubing.					Χ		
	Drilling horizontal wells with coiled tubing (difficult to							
47	steer)					Χ		
	Is there really an economic benefit of coiled tubing							
	versus a big drilling program with conventional (with							
48	economies of scale)?					Χ		
	These topics are important, seem to be missing:							
50	New ways to pump horizontal wells					Χ		
51	Innovative artificial lift concepts					X		
52								
53	COMMENTS FROM JESSICA CAVENS:							
	Too much of an emphasis on the resource assessment							
	and characterization. The first 2 years they picked 3							
	large characterization projects. I would like to see more							
	of an emphasis put on the development and							
	demonstration of technologies. The early parts of the							
	plan seem to start to head this direction, but on page							
	28, item #1 they address the characterization and					V		
	assessment					X		
	The drilling and completion areas I think are good.					X X		
56	Water management is good.  Overall, I would use the 2010 plan to emphasize					Λ		
	technology development and avoid solicitations for							
	assessment and characterization.					Χ		
37	D&C, Water and Environmental need to be top priorities					^		
58	L					Χ		
30	Good that they are going after E&P companies to					^		
50	participate					Χ		
	Tech transfer much improved		X			^		
-00	Tool talisio maon improved							
61	Table of contents mislabeled- Chapter 5 on wrong page							X
	Metrics are all focused on RPSEA. Should some be							
	included to clearly state how projects will be judged?							
62	Or does it matter?				X			

	А	В	С	D	Е	F	G	Н
	9/15/2009 DOE URTAC: 2010 DRAFT	EXECUTIVE	TECHNOLO	2007, 2008,	METRICS &	2010	Environment	ADMIN &
	ANNUAL PLAN COMMENTS (with	SUMMARY (& POLICY)	GY TRANSFER	2009 PORTFOLIO	BENEFITS ASSESSMEN	PROGRAM	al and Prior Recommend	EDITORIAL COMMENTS
	assigned topic areas)	(0.1017)		ASSESSMEN			ation Review	•
1	accignou topic areas,			Т				
63								
	COMMENTS FROM LAMES DWVFD.							
64	COMMENTS FROM JAMES DWYER:							
	Overall - I really liked the flow and structure of the							
	document. I know it's an intangible, but to me it seemed							
	easier to read and is well structured.							Χ
	Page 27 - Prioritized Technology Challenges - The first							
	three paragraphs clearly lay out the strategic focus of					V		
	technologies - an improvement.					Χ		
	Page 28 - It's probably "legaleze" but, if I was a							
	subscriber, I'd prefer to know if there will be 1, 2, or 3							
	solicitations and about when I could expect to see							
6/	them.					Х		
	Dago 20 2rd Daragraph beginning with Coligitations							
	Page 28 - 3rd Paragraph beginning with Solicitations							
	and ending on Page 29 with the conclusion of item 1:							
	we might want to spend some time reviewing and							
	condensing or refining this, if only to improve upon it. I							
	see duplication which is either an oversight on our part							
	or wording that is not specific							X
	It is great how DOE, NETL and RPSEA have taken real		.,					
69	ownership of Technology Transfer		Х					
	Page 49- States that KMD is scheduled to be deployed							
	Septmber 2009: will it be deployed before our 9/15							
	meeting?; when can we get access to the KMD for					.,		
	review?; who is the point of contact?					X		
71								
72	COMMENTS FROM JANET WEISS:							
1	I really support the planned solicitation approach and							
	areas outlined on pages 120-123.					X		
74	The connection of objectives to metrics is clear				X			

А	В	С	D	E	F	G	Н
9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)	SUMMARY (& POLICY)	TECHNOLO GY TRANSFER			2010 PROGRAM	Environment al and Prior Recommend ation Review	ADMIN & EDITORIAL COMMENTS
Regarding our committee positioning given current debate, we need to clearly advocate for clean natural gas as both a bridge fuel to lower carbon future and as an important component of energy security due to its abundant domestic supply in our opening summaries again.						X	
COMMENTS FROM NICK TEW:							
The cumulative effect of the URTAC over the last few	Х						
plan.	Χ						
For example, it's obvious that they have taken our comments on tech transfer very seriously.	Х	Х					
COMMENTS FROM CHRIS HALL:							
Changes have been very responsive to the past Advisory Committee recommendations.  Significant progress has been made by DOE, NETL and RPSEA on implimenting the Technology Transfer	Х	Х		Х	Х		
		V					
In part because of the focus of Plan on Unconventional Natural Gas, the projects are concentrated in the midcontinent region of the country. This causes a		^			V		
Since they are not constrained by Unconventional resources, the Small Producer projects need to have greater geographical distribution, including western							
	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)  Regarding our committee positioning given current debate, we need to clearly advocate for clean natural gas as both a bridge fuel to lower carbon future and as an important component of energy security due to its abundant domestic supply in our opening summaries again.  COMMENTS FROM NICK TEW:  I am again pleased to see that our previous issues and concerns are being incorporated as we move forward. The cumulative effect of the URTAC over the last few years is showing and has led to improvements in the plan.  For example, it's obvious that they have taken our comments on tech transfer very seriously.  COMMENTS FROM CHRIS HALL: Changes have been very responsive to the past Advisory Committee recommendations. Significant progress has been made by DOE, NETL and RPSEA on implimenting the Technology Transfer recommendations from prior Advisory Committee recommendations. Very well done.  In part because of the focus of Plan on Unconventional Natural Gas, the projects are concentrated in the midcontinent region of the country. This causes a geographic imbalance of program benefits. Since they are not constrained by Unconventional resources, the Small Producer projects need to have	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)  Regarding our committee positioning given current debate, we need to clearly advocate for clean natural gas as both a bridge fuel to lower carbon future and as an important component of energy security due to its abundant domestic supply in our opening summaries again.  COMMENTS FROM NICK TEW:  I am again pleased to see that our previous issues and concerns are being incorporated as we move forward. The cumulative effect of the URTAC over the last few years is showing and has led to improvements in the plan.  For example, it's obvious that they have taken our comments on tech transfer very seriously.  COMMENTS FROM CHRIS HALL: Changes have been very responsive to the past Advisory Committee recommendations. Significant progress has been made by DOE, NETL and RPSEA on implimenting the Technology Transfer recommendations from prior Advisory Committee recommendations. Very well done.  In part because of the focus of Plan on Unconventional Natural Gas, the projects are concentrated in the midcontinent region of the country. This causes a geographic imbalance of program benefits. Since they are not constrained by Unconventional resources, the Small Producer projects need to have greater geographical distribution, including western	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)  Regarding our committee positioning given current debate, we need to clearly advocate for clean natural gas as both a bridge fuel to lower carbon future and as an important component of energy security due to its abundant domestic supply in our opening summaries again.  COMMENTS FROM NICK TEW:  I am again pleased to see that our previous issues and concerns are being incorporated as we move forward. The cumulative effect of the URTAC over the last few years is showing and has led to improvements in the plan.  For example, it's obvious that they have taken our comments on tech transfer very seriously.  COMMENTS FROM CHRIS HALL: Changes have been very responsive to the past Advisory Committee recommendations.  Significant progress has been made by DOE, NETL and RPSEA on implimenting the Technology Transfer recommendations from prior Advisory Committee recommendations. Very well done.  In part because of the focus of Plan on Unconventional Natural Gas, the projects are concentrated in the midcontinent region of the country. This causes a geographic imbalance of program benefits.  Since they are not constrained by Unconventional resources, the Small Producer projects need to have greater geographical distribution, including western	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)  Regarding our committee positioning given current debate, we need to clearly advocate for clean natural gas as both a bridge fuel to lower carbon future and as an important component of energy security due to its abundant domestic supply in our opening summaries again.  COMMENTS FROM NICK TEW:  I am again pleased to see that our previous issues and concerns are being incorporated as we move forward. The cumulative effect of the URTAC over the last few years is showing and has led to improvements in the plan. For example, it's obvious that they have taken our comments on tech transfer very seriously.  COMMENTS FROM CHRIS HALL: Changes have been very responsive to the past Advisory Committee recommendations. Significant progress has been made by DOE, NETL and RPSEA on implimenting the Technology Transfer recommendations. Very well done.  In part because of the focus of Plan on Unconventional Natural Gas, the projects are concentrated in the mid-continent region of the country. This causes a geographic imbalance of program benefits. Since they are not constrained by Unconventional resources, the Small Producer projects need to have greater geographical distribution, including western	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)  Regarding our committee positioning given current debate, we need to clearly advocate for clean natural gas as both a bridge fuel to lower carbon future and as an important component of energy security due to its abundant domestic supply in our opening summaries again.  COMMENTS FROM NICK TEW:  I am again pleased to see that our previous issues and concerns are being incorporated as we move forward. X The cumulative effect of the URTAC over the last few years is showing and has led to improvements in the plan.  For example, it's obvious that they have taken our comments on tech transfer very seriously.  COMMENTS FROM CHRIS HALL:  Changes have been very responsive to the past Advisory Committee recommendations. Very well done.  In part because of the focus of Plan on Unconventional Natural Gas, the projects are concentrated in the mid-continent region of the country. This causes a geographic imbalance of program benefits.  Since they are not constrained by Unconventional Propose to the Small Producer projects need to have greater geographic idlistribution, including western	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)  Regarding our committee positioning given current debate, we need to clearly advocate for clean natural gas as both a bridge fuel to lower carbon future and as an important component of energy security due to its abundant domestic supply in our opening summaries again.  COMMENTS FROM NICK TEW:  I am again pleased to see that our previous issues and concerns are being incorporated as we move forward. The cumulative effect of the URTAC over the last few years is showing and has led to improvements in the plan.  For example, it's obvious that they have taken our comments on tech transfer very seriously.  COMMENTS FROM CHRIS HALL:  Changes have been very responsive to the past Advisory Committee recommendations.  X X X X X X X X X X X X X X X X X X X	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)  Regarding our committee positioning given current debate, we need to clearly advocate for clean natural gas as both a bridge fuel to lower carbon future and as an important component of energy security due to its abundant domestic supply in our opening summaries again.  COMMENTS FROM NICK TEW:  I am again pleased to see that our previous issues and concerns are being incorporated as we move forward. The cumulative effect of the URTAC over the last few years is showing and has led to improvements in the plan.  For example, it's obvious that they have taken our comments on tech transfer very seriously.  COMMENTS FROM CHRIS HALL:  Changes have been very responsive to the past Advisory Committee recommendations. Vary well done.  In part because of the focus of Plan on Unconventional Natural Gas, the projects are concentrated in the mid-continent region of the country. This causes a geographic imbalance of program benefits. Since they are not constrained by Unconventional resources, the Small Producer projects need to have greater geographical distribution, including western

	А	В	С	D	E	F	G	Н
1	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with assigned topic areas)	EXECUTIVE SUMMARY (& POLICY)	TECHNOLO GY TRANSFER	2007, 2008, 2009 PORTFOLIO ASSESSMEN T	METRICS & BENEFITS ASSESSMEN T	2010 PROGRAM	Environment al and Prior Recommend ation Review	ADMIN & EDITORIAL COMMENTS
	The objective of building on past projects and regions							
	results in the program failing to be more geographically diverse.					Х		
	The Technology Transfer component should identify deliverables that can be disseminated to all producing regions of the country, helping to balance the geographic reach of the program. This must be leveraged by pushing it to producers.		×			X		
89	The metrics of measuring program progress and success are much better defined.				Х			
90	p 8: "Universities have served as hosts of the majority of the RPSEA member forums." More emphasis needs to be placed on communicating with producers through their Trade Associations; small producers are not well connected to and are often distrustful of the University system. This effort must be proactive.		X			X		
91	Secure funding of the Sec 999 program continues to be a issue; the Administration's proposal to repeal funding is very detrimental. The 2010 Draft Annual Plan speaks for the value of the program. Very strong words need to be written to address this issue.	X						
92	One measure of project selection that should be emphasized should be whether or not it will yield technologies which can be transferred to all producing regions, thereby leveraging the investment and assuring maximum geographical dissemination of information		X		X	X		
93	There are no projects in the following oil and gas producing states: AL, CA, NV, UT, WY, CO, NE, This needs to be balanced with TT or DOE complimentary program focus.							

	А	В	С	D	Е	F	G	Н
	9/15/2009 DOE URTAC: 2010 DRAFT	EXECUTIVE	TECHNOLO	2007, 2008,	METRICS &	2010	Environment	ADMIN &
	ANNUAL PLAN COMMENTS (with	SUMMARY (& POLICY)	GY TRANSFER	2009 PORTFOLIO	BENEFITS ASSESSMEN	PROGRAM	al and Prior Recommend	EDITORIAL COMMENTS
	assigned topic areas)	(0.101)		ASSESSMEN			ation Review	
				Т				
1								
	Need a metric for geographical coverage of individual							
	projects (can include TT component). P. 73: RPSEA references cost-share contributions of at							
0.5	least 20% of total project costs. This is low. What is							
	the average %?					Х		
	p. 78: Forums referenced were held several years ago;							
	the outreach needs to be continued, especially in							
	regions where there is no activity or focus in order to		v					
	gage/stimulate producer interest. p. 82: How are technologies outside of the gas and oil		Х			Х		
	industry that may have application to help achieve the							
0.7	mission of the Program being identified? Has the FLC		V			V		
97	been engaged? Need to impliment the Program Sub-Committee		Χ			Х		
	Recommendations on Metrics and Benefits							
00					X			
	assessments Need to impliment the Program Sub-Committee				Λ			
				X				
99	Recommendations on Project portfolio review The Committee should review prior URTAC			^				
	recommendations to determine if there are any points							
100	which should be re-visited.	X	Χ	X	X	Х	X	Χ
	which should be re-visited.	۸	Λ	^	^	^	^	^
101 102								
102								
103								
104								
105								
107								
	CUIM OF COMMENTO IN FACULTORIO	6	4.4		7	F.0		4
	SUM OF COMMENTS IN EACH TOPIC:	8	11	2	7	52	5	4
110								
111								

	А	В	С	D	E	F	G	Н
	9/15/2009 DOE URTAC: 2010 DRAFT ANNUAL PLAN COMMENTS (with	EXECUTIVE SUMMARY (& POLICY)	TECHNOLO GY TRANSFER		METRICS & BENEFITS ASSESSMEN	2010 PROGRAM	Environment al and Prior Recommend	ADMIN & EDITORIAL COMMENTS
	assigned topic areas)			ASSESSMEN	Т		ation Review	
1								
112	SUB-GROUP TOPIC ASSIGNMENTS:							
113	Scott Anderson						X	
114				X	X		Head	
115	Jessica Cavens					Χ		
116	Bill Daugherty		X		X			
117			Head	X		Χ		X
118	Jeff Hall	X				Χ		X
119	Chris Hall	Head	X	X	X		X	Head
120	Bob Hardage		X			Χ		
121	Fred Julander	X					X	
122	Ray Levey				X		X	
123	Sandra Mark	X			Head			
124	Shahab Mohaghegh			X	X			
119 120 121 122 123 124 125 126 127	Don Sparks	X		Х		Χ		
126	Nick Tew					Head		
127	Janet Weiss			X			X	
128 129	Sally Zinke			Head				Х
129								