

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 022 00 04	1a. WORK PROPOSAL NO.: 01	2. REVISION NO.:	3. DATE PREPARED 04-15-03	3a. CONTRACTOR NO.: 24783
4. WORK PACKAGE TITLE: Radiological Facilities Management			4a. WORK PROPOSAL TITLE: Interim Storage of Mound SNM	
5. BUDGET & REPORTING CODE: AF-01-10-10	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN? <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Frazier, T. 937-865-3748	11. HEADQUARTERS ORGANIZATION: Space and Defense Power		14. DOE ORG. CODE: NE-50	
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:	12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH	
10. CONTRACTOR WORK PROPOSAL MANAGER:	13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12	
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): <p>Activities associated with the timely transition of the NE operations from Mound to ANL-W. In addition to establishing the operations at ANL-W, they are also being requested to aid in the transition and closure activities required at Mound.</p> <p>FY03-</p> <p>Planning for the transfer of the RPS/HS project from Mound Laboratory to ANL-W commences. Extensive equipment re-location from 5 buildings at MD to ANL-W will be undertaken and completed. Planning for the modifications to building 792, which will be the permanent home of the project, are initiated. Work will commence on establishing the other aspects of the project, such as weld development and part machining capabilities.</p> <p>FY04-</p> <p>The modifications to building 792 commence with construction activities. This activity has a duration of 8 months followed by placement of the assets removed from the Ohio facility. The transferred assets from Ohio are re-established in the modified building. The near-term mission is conducted in building 776 as an interim location. Machining and weld development continues.</p>				
19. CONTRACTOR WORK PROPOSAL MANAGER:			20. OPERATIONS OFFICE REVIEW OFFICIAL:	
			04-15-03	
			SIGNATURE	
			DATE	
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other	

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 022 01 04	REVISION NO.	CONTRACTOR NO. 24783	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE	
		FY 2003	ESTIMATE	REVISED	REQUEST				AUTHORIZED
	a. SCIENTIFIC	13.0	16.0	16.0	20.0		11.0	11.0	
	b. OTHER DIRECT	9.5	9.0	9.0	11.5		8.5	8.5	
	c. TECHNICAL SERVICES*	2.0	4.0	4.0	1.5		1.5	1.5	
d. TOTAL DIRECT	24.5	29.0	29.0	33.0		21.0	21.0		
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	5755	5775	5775	6800		4500	4508	
	b. TOTAL COSTS	5857	5775	5775	6800		4500	4508	
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	550	2000	2000	0		0	0	
	b. EQUIPMENT COSTS	550	2000	2000	0		0	0	
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE		AUTHORIZED SCHEDULE		
	PROPOSED		AUTHORIZED						
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

U. S. DEPARTMENT OF ENERGY

FIELD WORK PROPOSAL

1. WORK PACKAGE NO.: ANL 010 00 04		1a. WORK PROPOSAL NO.: 01		2. REVISION NO.:		3. DATE PREPARED: 04-15-03		3a. CONTRACTOR NO.: 24608*	
4. WORK PACKAGE TITLE: Nuclear Energy Technologies					4a. WORK PROPOSAL TITLE: Next Generation Nuclear Energy Systems				
5. BUDGET & REPORTING CODE: AF-37-10			6. WORK PROPOSAL TERM: Begin: End:		7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO		7a. PRINCIPAL INVESTIGATORS:		
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Versluis, R. (301) 903-1890				11. HEADQUARTERS ORGANIZATION: Office of Nuclear Energy, Science & Technology			14. DOE ORG. CODE: NE-20		
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:				12. OPERATIONS OFFICE: Chicago			15. DOE ORG. CODE: CH		
10. CONTRACTOR WORK PROPOSAL MANAGER:				13. CONTRACTOR NAME: University of Chicago/ANL			16. CODE: 12		

17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? YES NO

18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less):

The purpose of the Generation IV initiative is to work on an international basis to identify, assess, and develop nuclear energy technologies over the next three decades that can compete in all markets with the most cost-efficient technologies expected to be available while further enhancing nuclear safety, minimizing the impact of nuclear waste, and further reducing the risk of proliferation. The end product of the Generation IV initiative will be one or more next-generation nuclear energy systems designed and deployable around the world by 2030 or earlier. A Technology Roadmap to guide international cooperation on Generation IV R&D was completed in September 2002.

As Lead Laboratory for nuclear energy technology, ANL will lead and perform critical R&D identified in the Roadmap. ANL will contribute to the development of all Generation IV technologies being pursued by the Department of Energy. The Generation IV R&D commenced in FY 2003 and is expected to continue through 2025.

Work is also being performed under Work Package No. ANL 010 00 04, Work Proposal 02, Budget & Reporting Code AF-37-50 (Contractor No. 24797, 24798). Beginning in FY 2004 all work will be performed under this Work Package only.

*3a. 24608, 24609, 24634, 24641, 24826

*7a. Khalil, H. S. (630) 252-7266

19. CONTRACTOR WORK PROPOSAL MANAGER:		20. OPERATIONS OFFICE REVIEW OFFICIAL:	
		04-15-03	
		SIGNATURE DATE	

21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> a. Facility requirements | <input type="checkbox"/> d. Background | <input checked="" type="checkbox"/> g. Future accomplishments | <input type="checkbox"/> j. Explanation of milestones |
| <input type="checkbox"/> b. Publications | <input checked="" type="checkbox"/> e. Approach | <input checked="" type="checkbox"/> h. Relationships to other projects | <input type="checkbox"/> k. Human or Animal Subjects Activities |
| <input checked="" type="checkbox"/> c. Purpose | <input checked="" type="checkbox"/> f. Technical progress | <input type="checkbox"/> i. Environmental assessment | <input type="checkbox"/> l. Other (specify) |

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO. ANL 010 01 04		REVISION NO.		CONTRACTOR NO. 24608*		DATE PREPARED 04-15-03	
22. STAFFING (in staff years)			FY 2004		FY 2005				TOTAL TO COMPLETE
	PRIOR YEARS	FY 2003	ESTIMATE	REVISED	REQUEST	AUTHORIZED	FY 2006	FY 2007	
	a. SCIENTIFIC	3.8	5.2	5.2	21.8		28.8	28.2	
	b. OTHER DIRECT	0.7	1.0	1.0	4.4		5.8	5.7	
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0		0.0	0.0	
d. TOTAL DIRECT	4.5	6.2	6.2	6.2	26.2		34.6	33.9	
23. OBLIGATIONS AND COSTS (in thousands)									
a. TOTAL OBLIGATIONS		1306	1940	1940	8730		11640	11640	
b. TOTAL COSTS		1269	1903	1903	8355		11459	11630	
24. Equipment (in thousands)									
a. EQUIPMENT OBLIGATIONS		0	0	0	0				
b. EQUIPMENT COSTS		0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)									
FY 2005 DOLLARS					PROPOSED SCHEDULE		AUTHORIZED SCHEDULE		
PROPOSED			AUTHORIZED						
26. REPORTING REQUIREMENTS									
<p>*24608, 24609, 24634, 24641, 24826</p>									

*Technical services staffing includes ANL support divisions' scientific effort.

CONTRACTOR NAME University of Chicago/ANL	CONTRACTOR CODE 12	CONTRACTOR NUMBER 24608*	
WORK PACKAGE NUMBER ANL 010 00 04	WORK PROPOSAL NUMBER 01	DATE PREPARED 04-15-03	REVISION NUMBER

21. DETAIL ATTACHMENTS

- a. Facility requirements d. Background g. Future accomplishments j. Explanation of milestones
 b. Publications e. Approach h. Relationships to other projects k. Human or Animal Subjects Activities
 c. Purpose f. Technical progress i. Environmental assessment l. Other (specify)

c. Purpose

- Provide national coordination for reactor safety and design of Generation IV systems.
- Provide national leadership for the sodium cooled fast reactor and lead-cooled fast reactor systems.
- Provide support for the Generation IV International Forum Secretariat.
- Provide technical support for all Generation IV system development.

e. Approach

H. Khalil (100%), J. Roglans (100%), J. Kotek (50%), D. Crawford (50%)

f. Technical Progress

FY 2002 through FY 2003 highlights include completion of the Generation IV Technology Roadmap, the development of five-year R&D plans for Generation IV systems, support of the Generation IV International Forum Secretariat, and commencement of Generation IV R&D.

g. Future Accomplishments

Key future accomplishments include project leadership for the sodium fast reactor and lead fast reactor systems, as well as technology development for all Generation IV systems. Viability R&D will be performed to support a decision on fast reactor system development by 2014.

h. Relationships to Other Projects

Generation IV R&D will be closely coordinated with R&D in the Advanced Fuel Cycle Initiative.

U. S. DEPARTMENT OF ENERGY

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FIELD WORK PROPOSAL

1. WORK PACKAGE NO.: ANL 010 00 04		1a. WORK PROPOSAL NO.: 02		2. REVISION NO.:		3. DATE PREPARED: 04-15-03		3a. CONTRACTOR NO.: 24797*	
4. WORK PACKAGE TITLE: Nuclear Energy Technologies				4a. WORK PROPOSAL TITLE: Advanced Reactor Development Activities - NT					
5. BUDGET & REPORTING CODE: AF-37-50		6. WORK PROPOSAL TERM: Begin: End:		7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO		7a. PRINCIPAL INVESTIGATORS:			
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Versluis, R. (301) 903-1890				11. HEADQUARTERS ORGANIZATION: Office of Nuclear Energy, Science & Technology			14. DOE ORG. CODE: NE-20		
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:				12. OPERATIONS OFFICE: Chicago			15. DOE ORG. CODE: CH		
10. CONTRACTOR WORK PROPOSAL MANAGER:				13. CONTRACTOR NAME: University of Chicago/ANL			18. CODE: 12		
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST?									<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less):
 The purpose of the Generation IV initiative is to work on an international basis to identify, assess, and develop nuclear energy technologies over the next three decades that can compete in all markets with the most cost-efficient technologies expected to be available while further enhancing nuclear safety, minimizing the impact of nuclear waste, and further reducing the risk of proliferation. The end product of the Generation IV initiative will be one or more next-generation nuclear energy systems designed and deployable around the world by 2030 or earlier. A Technology Roadmap to guide international cooperation on Generation IV R&D was completed in September 2002.

As Lead Laboratory for nuclear energy technology, ANL will lead and perform critical R&D identified in the Roadmap. ANL will contribute to the development of all Generation IV technologies being pursued by the Department of Energy. The Generation IV R&D commenced in FY 2003 and is expected to continue through 2025.

Work is also being performed under Work Package No. ANL 010 00 04, Work Proposal 01, Budget & Reporting Code AF-37-10 (Contractor No. 24608, etc.). Beginning in FY 2004 all work will be performed under Work Package ANL 011 00 04, Work Proposal 01, Budget & Reporting Code AF-37-10.

*3a. 24797, 24798
 *7a. Khalil, H. S. (630) 252-7266

19. CONTRACTOR WORK PROPOSAL MANAGER:		20. OPERATIONS OFFICE REVIEW OFFICIAL:	
		SIGNATURE	DATE 04-15-03

21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.

<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other (specify)

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 010 02 04	REVISION NO.	CONTRACTOR NO. 24797*	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC		1.8	0.0	0.0	0.0			
	b. OTHER DIRECT		0.1	0.0	0.0	0.0			
	c. TECHNICAL SERVICES*		0.0	0.0	0.0	0.0			
d. TOTAL DIRECT		1.9	0.0	0.0	0.0				
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	407	0	0	0				
	b. TOTAL COSTS	630	0	0	0				
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED		AUTHORIZED						
26. REPORTING REQUIREMENTS									

*24797, 24798

*Technical services staffing includes ANL support divisions' scientific effort.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 010 00 04	1a. WORK PROPOSAL NO.: 03	2. REVISION NO.:	3. DATE PREPARED: 04-15-03	3a. CONTRACTOR NO.: 24864
4. WORK PACKAGE TITLE: Nuclear Energy Technologies			4a. WORK PROPOSAL TITLE: Nuclear Hydrogen Initiative	
5. BUDGET & REPORTING CODE: AF-37-10	6. WORK PROPOSAL TERM: Begin: End:		7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Henderson, D. (301)903-3097		11. HEADQUARTERS ORGANIZATION: Office of Nuclear Energy, Science & Technology		14. DOE ORG. CODE: NE-20
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:		12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH
10. CONTRACTOR WORK PROPOSAL MANAGER:		13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? <input type="checkbox"/> Yes <input checked="" type="checkbox"/>				
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): <p>The purpose of the Nuclear Hydrogen Initiative is to develop technologies that can facilitate the use of nuclear energy for the production of hydrogen. The end product of the initiative will be the development of one or more nuclear-hydrogen production cycles that can be used as part of a next-generation nuclear energy system that can be deployed in 2015-2020.</p> <p>As Lead Laboratory for nuclear energy technology, ANL will have a lead role in the development of an R&D plan for the development of nuclear-hydrogen production cycles, and will lead and perform critical R&D identified in the plan. ANL will also work with other laboratories to develop the R&D infrastructure necessary to take the production cycles from a bench-scale to a prototype demonstration phase.</p>				
19. CONTRACTOR WORK PROPOSAL MANAGER:			20. OPERATIONS OFFICE REVIEW OFFICIAL:	
			<hr/> SIGNATURE DATE	
			<hr/> 04-15-03	
21. DETAIL ATTACHMENTS: (See Instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements <input type="checkbox"/> d. Background <input type="checkbox"/> g. Future accomplishments <input type="checkbox"/> j. Explanation of milestones <input type="checkbox"/> b. Publications <input type="checkbox"/> e. Approach <input type="checkbox"/> h. Relationships to other projects <input type="checkbox"/> k. Human or Animal Subjects Activities <input type="checkbox"/> c. Purpose <input type="checkbox"/> f. Technical progress <input type="checkbox"/> i. Environmental assessment <input type="checkbox"/> l. Other (specify)				

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 010 03 04	REVISION NO.	CONTRACTOR NO. 24864	DATE PREPARED 04-15-03					
22. STAFFING (in staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC	0.0	4.0	4.0	8.0		8.0	8.0	
	b. OTHER DIRECT	0.0	2.0	2.0	4.0		4.0	4.0	
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0		0.0	0.0	
d. TOTAL DIRECT	0.0	6.0	6.0	12.0		12.0	12.0		
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	0	1500	1500	3000		3000	3000	
	b. TOTAL COSTS	0	1417	1417	2913		2995	3174	
24. Equipment (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED		AUTHORIZED						
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL

1. WORK PACKAGE NO.: ANL 015 00 04	1a. WORK PROPOSAL NO.: 02	2. REVISION NO.:	3. DATE PREPARED: 04-15-03	3a. CONTRACTOR NO.: 24590
4. WORK PACKAGE TITLE: Nuclear Energy Plant Optimization		4a. WORK PROPOSAL TITLE: Modeling of Deformation Behavior		
5. BUDGET & REPORTING CODE: AF-45-30	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Morris, G. (301) 903-9527	11. HEADQUARTERS ORGANIZATION: Office of Nuclear Energy, Science and Technology	14. DOE ORG. CODE: NE-20		
		16. DOE ORG. CODE: CH		
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:	12. OPERATIONS OFFICE: Chicago	16. CODE: 12		
10. CONTRACTOR WORK PROPOSAL MANAGER:	13. CONTRACTOR NAME: University of Chicago/ANL			
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST?				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less):				
<p>Stainless steels, from which a number of reactor pressure-vessel internal components are made, experience a wide variety of material property degradations caused by exposure to the reactor-core operation environment. Among these types of degradation are an increased susceptibility to stress-corrosion cracking (SCC), a reduction in toughness and ductility, a reduced resistance to fatigue cracking, grain-boundary weakening, and stress relaxation. These deleterious effects are all influenced by the mechanical behavior of the steels and the way it evolves during in-reactor thermal and irradiation exposure over a wide range of temperature and irradiation dose. The mechanical behavior also affects the behavior of such steels during repair processes such as welding. Therefore, understanding the changes that occur during irradiation of stainless steels is a critical aspect of understanding the degradation and repair of the reactor internals. Mechanical testing will be complemented by efforts to build physically based multi-scale models which couple with experiments to relate the underlying materials micro-structure to mechanical properties. Mechanical deformation in irradiated components will be evaluated using a variety of available irradiated stainless steels and characterization will complement this testing using transmission electron microscopy.</p> <p>The data generated in this work, along with data generated by future DOE work on deformation and data generated by joint EPRI/EDF projects will all be used in improving the knowledge base on irradiated material deformation and developing the deformation models.</p>				
19. CONTRACTOR WORK PROPOSAL MANAGER:		20. OPERATIONS OFFICE REVIEW OFFICIAL:		
		_____ SIGNATURE		04-15-03 DATE
21. DETAIL ATTACHMENTS: (See Instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other (specify)	

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 015 02 04	REVISION NO.	CONTRACTOR NO. 24590	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC		0.6	0.0	0.0	0.0			
	b. OTHER DIRECT		0.0	0.0	0.0	0.0			
	c. TECHNICAL SERVICES*		0.1	0.0	0.0	0.0			
d. TOTAL DIRECT		0.7	0.0	0.0	0.0				
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	0	0	0	0				
	b. TOTAL COSTS	159	0	0	0				
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED	AUTHORIZED							
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 015 00 04	1a. WORK PROPOSAL NO.: 04	2. REVISION NO.:	3. DATE PREPARED 04-15-03	3a. CONTRACTOR NO.: 24627
4. WORK PACKAGE TITLE: Nuclear Energy Plant Optimization		4a. WORK PROPOSAL TITLE: NEPO Interns		
5. BUDGET & REPORTING CODE: AF-45-30	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN? <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Allen, T. 301-903-1647	11. HEADQUARTERS ORGANIZATION: Office of Nuclear Energy, Science and Technology		14. DOE ORG. CODE: NE-20	
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:	12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH	
10. CONTRACTOR WORK PROPOSAL MANAGER:	13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12	

17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? YES NO

18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less):

Graduate and undergraduate student summer positions are intended to involve researchers from minority institutions in projects funded by the Department of Energy's NEPO Program. Under the guidance of experienced mentors, these summer research positions were created to support the mission of the program. Positions are available at national laboratories and other contractor organizations. This program is open to graduate students and highly qualified undergraduate students attending colleges and universities classified as accredited post secondary minority institutions. The participants must be enrolled in the college or university at the time of the application. U.S. citizenship, permanent resident alien (PRA) status or an employment authorization document (EAD) from the Immigration and Naturalization Service is required.

- Applicants will be reviewed on the basis of:
- career goals, research and educational interests and abilities
 - recommendations
 - academic performance and class standing

19. CONTRACTOR WORK PROPOSAL MANAGER:	20. OPERATIONS OFFICE REVIEW OFFICIAL:
	04-15-03
	SIGNATURE DATE

21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.

<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO. ANL 015 04 04		REVISION NO.		CONTRACTOR NO. 24627		DATE PREPARED 04-15-03	
22. STAFFING (in staff years)	PRIOR YEARS		FY 2004		FY 2005				TOTAL TO COMPLETE
		FY 2003	ESTIMATE	REVISED	REQUEST	AUTHORIZED	FY 2006	FY 2007	
	a. SCIENTIFIC.....	0.0	0.0	0.0	0.0		0.0	0.0	
	b. OTHER DIRECT.....	0.0	0.0	0.0	0.0		0.0	0.0	
	c. TECHNICAL SERVICES*.....	0.0	0.0	0.0	0.0		0.0	0.0	
d. TOTAL DIRECT.....	0.0	0.0	0.0	0.0		0.0	0.0		
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	10	11	11	10		10	10	
	b. TOTAL COSTS.....	10	10	10	10		10	10	
24. EQUIPMENT (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS.....	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE		AUTHORIZED SCHEDULE		
	PROPOSED		AUTHORIZED						
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

U. S. DEPARTMENT OF ENERGY

FIELD WORK PROPOSAL

1. WORK PACKAGE NO.: ANL 032 00 04	1a. WORK PROPOSAL NO.: 01	2. REVISION NO.:	3. DATE PREPARED: 04-15-03	3a. CONTRACTOR NO.: 47065
4. WORK PACKAGE TITLE: Advanced Fuel Cycle Initiative		4a. WORK PROPOSAL TITLE: Advanced Fuel Cycle Initiative		
5. BUDGET & REPORTING CODE: AF-57	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Herczeg, J. (202)586-8728	9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:	10. CONTRACTOR WORK PROPOSAL MANAGER:	11. HEADQUARTERS ORGANIZATION: Office of Nuclear Energy, Science and Technology	12. OPERATIONS OFFICE: Chicago
13. CONTRACTOR NAME: University of Chicago/ANL	14. DOE ORG. CODE: NE-20	15. DOE ORG. CODE: CH	16. CODE: 12	
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): ANL will execute a program of work based upon continuing the AFCI program developed during FY00, 01 and 02 and in accordance with the current AFCI Program Plan. The workscope for ANL will be concentrated in five areas: system studies, separations technologies, spent fuel treatment, fuels development, and transmutation engineering. System study activities will concentrate on improving the definition of the key technical elements of a transmutation strategy, and executing R&D work to resolve major technical issues and support key decisions. This will include the design of thermal and fast transmuter reactors with their associated fuel cycle strategies, optimized with respect to AFCI program objectives. In the area of separations technologies, ANL will lead the AFCI in developing efficient and proliferation resistant separation technologies for standard and advanced fuel types that optimize the benefits to the program. This will include the development and optimization of flowsheets associated with specific processes, small scale experimental demonstration of these processes, large scale demonstrations, development of the associated waste forms and temporary or permanent storage strategies, and development and testing of waste forms produced in the processes.				
19. CONTRACTOR WORK PROPOSAL MANAGER:		20. OPERATIONS OFFICE REVIEW OFFICIAL: _____ SIGNATURE 04-15-03 DATE		
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other (specify)	

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO. ANL 032 01 04		REVISION NO.		CONTRACTOR NO. 47065		DATE PREPARED 04-15-03		
22. STAFFING (In staff years)		PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
	ESTIMATE			REVISED	REQUEST	AUTHORIZED				
a. SCIENTIFIC	91.5	83.2	109.7	113.0		115.8	118.2			
b. OTHER DIRECT	45.2	45.2	47.0	47.0		47.0	47.0			
c. TECHNICAL SERVICES*	11.0	11.0	11.0	11.0		11.0	11.0			
d. TOTAL DIRECT	147.7	139.4	167.7	171.0		173.8	176.2			
23. OBLIGATIONS AND COSTS (In thousands)										
a. TOTAL OBLIGATIONS	32017	32125	40000	42000		44000	46000			
b. TOTAL COSTS	33191	32125	40000	42000		44000	46000			
24. Equipment (In thousands)										
a. EQUIPMENT OBLIGATIONS	0	0	0	0						
b. EQUIPMENT COSTS	0	0	0	0						
25. MILESTONE SCHEDULE (Tasks)		FY 2005 DOLLARS								
	PROPOSED	AUTHORIZED		PROPOSED SCHEDULE		AUTHORIZED SCHEDULE				
26. REPORTING REQUIREMENTS										

*Technical services staffing includes ANL support divisions' scientific effort.

CONTRACTOR NAME University of Chicago/ANL		CONTRACTOR CODE 12	CONTRACTOR NO. 47065	
WORK PACKAGE NUMBER ANL 032 00 04		WORK PROPOSAL NUMBER 01	DATE PREPARED 04-15-03	REVISION NUMBER

21. DETAIL ATTACHMENTS

- | | | | |
|---|--|---|---|
| <input type="checkbox"/> a. Facility requirements | <input type="checkbox"/> d. Background | <input type="checkbox"/> g. Future accomplishments | <input type="checkbox"/> j. Explanation of milestones |
| <input type="checkbox"/> b. Publications | <input type="checkbox"/> e. Approach | <input type="checkbox"/> h. Relationships to other projects | <input type="checkbox"/> k. Human or Animal Subjects Activities |
| <input type="checkbox"/> c. Purpose | <input type="checkbox"/> f. Technical progress | <input type="checkbox"/> i. Environmental assessment | <input type="checkbox"/> l. Other (specify) |

18. Work Proposal Description (contd.)

The Spent Fuel Treatment activities are essential to the disposal of EBR-II fuel, and support the development of advanced pyroprocessing technologies. ANL will run the fuel cycle facilities at ANL-W to continue disposing of EBR-II fuel while providing feed materials for the development of advanced technologies, such as transuranic recovery and high throughput electrorefining.

In the area of fuel development, efforts will be concentrated on preparing, running, and analyzing results of irradiation tests of low fertile and non-fertile fuels.

In the area of transmutation engineering, efforts will be devoted to developing and analyzing physics experiments to resolve the key technical issues related to the transmutation of actinides in advanced nuclear systems.

These activities will be conducted in close collaboration with foreign organizations whenever desirable.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 027 00 04	1a. WORK PROPOSAL NO.: 01	2. REVISION NO.:	3. DATE PREPARED 04-15-03	3a. CONTRACTOR NO.: 24638
4. WORK PACKAGE TITLE: Fast Flux Test Facility			4a. WORK PROPOSAL TITLE: FFTF	
5. BUDGET & REPORTING CODE: AF-79-05	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN? <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Tourigny, Ed 301-903-3679	11. HEADQUARTERS ORGANIZATION: Nuclear Energy		14. DOE ORG. CODE: NE-40	
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:	12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH	
10. CONTRACTOR WORK PROPOSAL MANAGER:	13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12	
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST?			<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less):				
<p>ANL-W will review and comment on a schedule and the development of a bottoms up cost estimate for the schedule in support of the DOE-RL FFTF shutdown.</p>				
19. CONTRACTOR WORK PROPOSAL MANAGER:			20. OPERATIONS OFFICE REVIEW OFFICIAL:	
			<p>04-15-03</p> <hr style="width: 100%;"/> <p align="right">SIGNATURE DATE</p>	
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other	

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 027 01 04	REVISION NO.	CONTRACTOR NO. 24638	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC.....	2.0	2.6	2.6	11.9		12.0	12.2	
	b. OTHER DIRECT.....	0.0	0.0	0.0	0.0		0.0	0.0	
	c. TECHNICAL SERVICES*.....	0.0	0.0	0.0	0.0		0.0	0.0	
d. TOTAL DIRECT.....	2.0	2.6	2.6	11.9		12.0	12.2		
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	378	522	522	2500		2500	2500	
	b. TOTAL COSTS.....	378	493	493	2390		2494	2645	
24. EQUIPMENT (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS.....	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED		AUTHORIZED						
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 001 01 04	REVISION NO.	CONTRACTOR NO. 47050*	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC	74.0	71.8	107.0	105.0	105.0	105.0	105.0	105.0
	b. OTHER DIRECT	99.0	96.1	143.0	140.0	140.0	140.0	140.0	140.0
	c. TECHNICAL SERVICES*	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
d. TOTAL DIRECT	176.0	170	253.0	248.0	248.0	248.0	248.0	248.0	
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	30615	32695	49483	48101	48907	50335	50335	
	b. TOTAL COSTS	31695	32695	49483	48101	48907	50335	50335	
24. Equipment (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	197	405	265	155	155	
	b. EQUIPMENT COSTS	0	0	197	405	265	155	155	
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED	AUTHORIZED							
26. REPORTING REQUIREMENTS									

*47030, 47031, 47032, 47051, 47052, 47053, 47054, 47055, and 47056.

*Technical services staffing includes ANL support divisions' scientific effort.

CONTRACTOR NAME University of Chicago/ANL		CONTRACTOR CODE 12	CONTRACTOR NO. 47050*	
WORK PACKAGE NUMBER ANL 001 00 04		WORK PROPOSAL NUMBER 01	DATE PREPARED 04-15-03	REVISION NUMBER

21. DETAIL ATTACHMENTS

- | | | | |
|---|--|---|---|
| <input type="checkbox"/> a. Facility requirements | <input type="checkbox"/> d. Background | <input type="checkbox"/> g. Future accomplishments | <input type="checkbox"/> j. Explanation of milestones |
| <input type="checkbox"/> b. Publications | <input type="checkbox"/> e. Approach | <input type="checkbox"/> h. Relationships to other projects | <input type="checkbox"/> k. Human or Animal Subjects Activities |
| <input type="checkbox"/> c. Purpose | <input type="checkbox"/> f. Technical progress | <input type="checkbox"/> i. Environmental assessment | <input checked="" type="checkbox"/> l. Other (specify) |

18. Work Proposal Description (Cont'd)

Future GPP funding levels are detailed in the Argonne National Laboratory-West Plant Assets Management Plan FY 2003-FY 2007, dated September, 2002 and in the Project Data Sheets for GPP and AIP for Construction Project Engineering. In FY 2003, no Infrastructure GPP funding was authorized.

The Infrastructure Implementation Plan describes the infrastructure organization, work scope, work breakdown structure, assumptions and risks, schedules, reporting, change control and environmental and safety issues.

21 l. Other

Argonne National Laboratory Infrastructure Program Implementation Plan for FY2003, Document Number F0000-0061-ES-01, dated September 27, 2002.

Argonne National Laboratory-West Plant Assets Management Plan FY 2003-2007, dated September 2002.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 035 00 04	1a. WORK PROPOSAL NO.: 03	2. REVISION NO.:	3. DATE PREPARED: 04-15-03	3a. CONTRACTOR NO.: 24352
4. WORK PACKAGE TITLE: Weapons Activities		4a. WORK PROPOSAL TITLE: NDE of Tritium Absorber Rods		
5. BUDGET & REPORTING CODE: DP-08-17-01-1	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Taylor, O.W. 202-586-4275	11. HEADQUARTERS ORGANIZATION: Defense Programs		14. DOE ORG. CODE: NA-125.1	
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:	12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH	
10. CONTRACTOR WORK PROPOSAL MANAGER:	13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12	
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): This project completed the non-destructive examination of 32 Tritium producing absorber rods. These rods were received from the Watts-Barr Nuclear Power Plant in July 1999. At completion of non-destructive examinations, 4 selected rods were sectioned and shipped to Battelle Hanford for destructive work. In December 2002 the 4 selected rods we've returned from Battelle Hanford. In FY2003 the 32 TPbars will be prepared and stored at the ANL-W Radioactive Scrap And Waste Facility until 2007. In 2007 the rod's will be shipped to SRS's new Tritium Extraction Facility for processing.				
19. CONTRACTOR WORK PROPOSAL MANAGER:		20. OPERATIONS OFFICE REVIEW OFFICIAL:		
		SIGNATURE		DATE 04-15-03
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other (specify)	

U. S. DEPARTMENT OF ENERGY

FIELD WORK PROPOSAL

1. WORK PACKAGE NO.: ANL 059 00 04		1a. WORK PROPOSAL NO.: 01		2. REVISION NO.:		3. DATE PREPARED: 04-15-03		3a. CONTRACTOR NO.: 24666	
4. WORK PACKAGE TITLE: Independent Oversight and Performance Assurance (Defense)-Program Direction						4a. WORK PROPOSAL TITLE: CAT Team Expenses			
5. BUDGET & REPORTING CODE: PB-10-02		6. WORK PROPOSAL TERM: Begin: End:		7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO		7a. PRINCIPAL INVESTIGATORS:			
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Guevara, A. E. 301-903-5781				11. HEADQUARTERS ORGANIZATION: Safeguards & Security Eval.			14. DOE ORG. CODE: OA-10		
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:				12. OPERATIONS OFFICE: Chicago			15. DOE ORG. CODE: CH		
10. CONTRACTOR WORK PROPOSAL MANAGER:				13. CONTRACTOR NAME: University of Chicago/ANL			16. CODE: 12		
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): Participate as members of the Office of Safeguards and Security Evaluations (OA-10) Composite Adversary Team (CAT) program. This program consists of highly trained Security Police Officers that participate in performance and validation testing activities related to safeguards and security functions. These functions include, testing of intrusion detection and assessment systems, Protective Force, Materials Control and Accountability, and are accomplished through the use of Limited Scope Performance Testing and Force-on-Force exercises. CAT Team members are an integral part of the Office of Safeguards and Security Evaluations (OA-10) inspection activities and learn many valuable skills that can be brought back and used at their respective organizations. These skills include advanced adversary attack methods, weapons capabilities, and a working knowledge of intrusion detection and assessment weakness and strengths. Facilities are able to use this information to properly test systems and Protective Forces in an attempt to identify weakness. These weaknesses can then be addressed in a cost effective expedient manner. Participation in the CAT Team is another tool that can be used to improve Safeguards and Security operations.									
19. CONTRACTOR WORK PROPOSAL MANAGER:					20. OPERATIONS OFFICE REVIEW OFFICIAL: _____ SIGNATURE				
					04-15-03 DATE				
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.									
<input type="checkbox"/> a. Facility requirements <input type="checkbox"/> d. Background <input checked="" type="checkbox"/> g. Future accomplishments <input type="checkbox"/> j. Explanation of milestones <input type="checkbox"/> b. Publications <input type="checkbox"/> e. Approach <input checked="" type="checkbox"/> h. Relationships to other projects <input type="checkbox"/> k. Human or Animal Subjects Activities <input checked="" type="checkbox"/> c. Purpose <input type="checkbox"/> f. Technical progress <input type="checkbox"/> i. Environmental assessment <input type="checkbox"/> l. Other (specify)									

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 035 03 04	REVISION NO.	CONTRACTOR NO. 24352	DATE PREPARED 04-15-03						
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE	
			ESTIMATE	REVISED	REQUEST	AUTHORIZED				
	a. SCIENTIFIC		1.1	0.0	0.0	0.0		0.1		
	b. OTHER DIRECT		1.8	0.1	0.0	0.1		0.1		
	c. TECHNICAL SERVICES*		0.0	0.0	0.0	0.0		0.0		
d. TOTAL DIRECT		2.9	0.1	0.0	0.1		0.2			
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	0	0	0	0		0			
	b. TOTAL COSTS	506	11	0	11		29			
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0		0			
	b. EQUIPMENT COSTS	0	0	0	0		0			
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE				
	PROPOSED	AUTHORIZED								
26. REPORTING REQUIREMENTS										

*Technical services staffing includes ANL support divisions' scientific effort.

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO. ANL 059 01 04		REVISION NO.		CONTRACTOR NO. 24666		DATE PREPARED 04-15-03	
22. STAFFING (In staff years)				FY 2004		FY 2005			
	PRIOR YEARS	FY 2003	ESTIMATE	REVISED	REQUEST	AUTHORIZED	FY 2006	FY 2007	TOTAL TO COMPLETE
a. SCIENTIFIC		0.0	0.0	0.0	0.0		0.0	0.0	
b. OTHER DIRECT		0.0	0.0	0.0	0.0		0.0	0.0	
c. TECHNICAL SERVICES*		0.0	0.0	0.0	0.0		0.0	0.0	
d. TOTAL DIRECT		0.0	0.0	0.0	0.0		0.0	0.0	
23. OBLIGATIONS AND COSTS (In thousands)									
a. TOTAL OBLIGATIONS		9	20	20	20		20	20	
b. TOTAL COSTS		20	20	20	20		20	20	
24. Equipment (In thousands)									
a. EQUIPMENT OBLIGATIONS		0	0	0	0		0	0	
b. EQUIPMENT COSTS		0	0	0	0		0	0	
25. MILESTONE SCHEDULE (Tasks)		FY 2005 DOLLARS							
	PROPOSED	AUTHORIZED		PROPOSED SCHEDULE		AUTHORIZED SCHEDULE			
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO.		REVISION NO.		CONTRACTOR NO. 74200		DATE PREPARED 04-15-03		
22. STAFFING (in staff years)		PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
	ESTIMATE			REVISED	REQUEST	AUTHORIZED				
a. SCIENTIFIC	10.0	10.0	10.0	11.0		11.0	11.0			
b. OTHER DIRECT	53.0	59.0	59.0	59.0		59.0	59.0			
c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0		0.0	0.0			
d. TOTAL DIRECT	63.0	69.0	69.0	70.0		70.0	70.0			
23. OBLIGATIONS AND COSTS (in thousands)										
a. TOTAL OBLIGATIONS	7180	8494	8494	8489		8667	8849			
b. TOTAL COSTS	7180	8494	8494	8489		8667	8849			
24. Equipment (in thousands)										
a. EQUIPMENT OBLIGATIONS	0	60	0	0		0	0			
b. EQUIPMENT COSTS	0	60	0	0		0	0			
25. MILESTONE SCHEDULE (Tasks)		FY 2005 DOLLARS								
		PROPOSED	AUTHORIZED		PROPOSED SCHEDULE		AUTHORIZED SCHEDULE			
26. REPORTING REQUIREMENTS										
<p>**FY2003 reflect only FS funds authorization. Funding in the amount \$452K recovered from the Laboratory's Reimbursable Work Programs are not included in the FY2003 funds shown above.</p> <p>**Obligations and costs do not include General Plant Projects (GPP) funding for ANL-West site security upgrades of \$1,000K (FY2003).</p>										

*Technical services staffing includes ANL support divisions' scientific effort.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: <p align="center">JS</p>	1a. WORK PROPOSAL NO.: <p align="center">CH-ANL-WRTF</p>	2. REVISION NO.:	3. DATE PREPARED <p align="center">04-15-03</p>	3a. CONTRACTOR NO.: <p align="center">78324</p>
4. WORK PACKAGE TITLE:			4a. WORK PROPOSAL TITLE: <p align="center">RTF at ANL</p>	
5. BUDGET & REPORTING CODE: <p align="center">EW-02-C3-01</p>	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN? <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Frei, Mark. 202-586-0370		11. HEADQUARTERS ORGANIZATION: Project Completion		14. DOE ORG. CODE: EM-40
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:		12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH
10. CONTRACTOR WORK PROPOSAL MANAGER:		13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less):				
<p>The conceptual design of the Remote Treatment Facility (RTF) must be completed to support receipt of congressional line item funding for its design and construction. The approach is to complete the Conceptual Design Report (CDR) and submit project data sheet (PDS). The PDS will initiate the request for line item funding. Congressional approval of line item funding for design and construction is expected by October 2004. Construction and start-up of the facility is expected to be complete by September 2010. FY03 funding will be used to support a NEPA determination for the facility, and provide support for the submitted line item request.</p> <p>The RTF will be used to sort, characterize, treat, and repackage INEEL remote handled waste for transport and final disposition at approved DOE repositories. DOE-NE has approved the Critical Decision-0 step for the RTF. The funding profile comes from Tables 1 and 2 of the approved mission need statement.</p>				
19. CONTRACTOR WORK PROPOSAL MANAGER:			20. OPERATIONS OFFICE REVIEW OFFICIAL:	
			<p align="right">04-15-03</p> <hr style="width: 100%;"/> <p align="right">SIGNATURE DATE</p>	
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements <input type="checkbox"/> d. Background <input type="checkbox"/> g. Future accomplishments <input type="checkbox"/> j. Explanation of milestones <input type="checkbox"/> b. Publications <input type="checkbox"/> e. Approach <input type="checkbox"/> h. Relationships to other projects <input type="checkbox"/> k. Human or Animal Subjects Activities <input type="checkbox"/> c. Purpose <input type="checkbox"/> f. Technical progress <input type="checkbox"/> i. Environmental assessment <input type="checkbox"/> l. Other				

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO.	REVISION NO.	CONTRACTOR NO. 78324	DATE PREPARED 04-15-03					
22. STAFFING (in staff years)	PRIOR YEARS	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE	
		FY 2003	ESTIMATE	REVISED	REQUEST				AUTHORIZED
	a. SCIENTIFIC.....	0.5	0.0	0.0	26.4		18.4	1.0	
	b. OTHER DIRECT.....	0.0	0.0	0.0	0.0		0.0	0.0	
	c. TECHNICAL SERVICES*.....	0.0	0.0	0.0	0.0		0.0	0.0	
d. TOTAL DIRECT.....	0.5	0.0	0.0	26.4		18.4	1.0		
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	0	0	0	9000		18900	16700	
	b. TOTAL COSTS.....	92	5	5	8505		18328	16790	
24. EQUIPMENT (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS.....	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED		AUTHORIZED						
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: JS	1a. WORK PROPOSAL NO.: CA02	2. REVISION NO.:	3. DATE PREPARED 04-15-03	3a. CONTRACTOR NO.: 78335
4. WORK PACKAGE TITLE:		4a. WORK PROPOSAL TITLE: WIPP		
5. BUDGET & REPORTING CODE: EW02BB02A	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN? <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Frei, Mark 202-586-0370	11. HEADQUARTERS ORGANIZATION: Project Completion		14. DOE ORG. CODE: EM-40	
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:	12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH	
10. CONTRACTOR WORK PROPOSAL MANAGER:	13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12	
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): Argonne National Laboratory - West will perform ongoing surveillance and maintenance of the Gas-Generation Experiments. Post test chemistry and material science analyses are to be performed on brine and transuranic waste samples from six test containers; disposal of all transuranic contaminated wastes from these test containers and six additional containers that will not be examined.				
19. CONTRACTOR WORK PROPOSAL MANAGER:		20. OPERATIONS OFFICE REVIEW OFFICIAL:		
		04-15-03		DATE
SIGNATURE				
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other	

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO.	REVISION NO.	CONTRACTOR NO. 78335	DATE PREPARED 04-15-03				
22. STAFFING (in staff years) a. SCIENTIFIC..... b. OTHER DIRECT..... c. TECHNICAL SERVICES*..... d. TOTAL DIRECT.....	PRIOR YEARS	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
		FY 2003	ESTIMATE	REVISED	REQUEST			
		1.6	0.0	0.0	0.0			
		0.0	0.0	0.0	0.0			
		0.0	0.0	0.0	0.0			
	1.6	0.0	0.0	0.0				
23. OBLIGATIONS AND COSTS (in thousands) a. TOTAL OBLIGATIONS b. TOTAL COSTS.....		0	0	0	0			
		294	0	0	0			
24. EQUIPMENT (in thousands) a. EQUIPMENT OBLIGATIONS b. EQUIPMENT COSTS.....		0	0	0	0			
		0	0	0	0			
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE		
	PROPOSED		AUTHORIZED					
26. REPORTING REQUIREMENTS								

*Technical services staffing includes ANL support divisions' scientific effort.

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. JS	REVISION NO.	CONTRACTOR NO. 24327	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)			FY 2004	FY 2005					
	PRIOR YEARS	FY 2003	ESTIMATE	REVISED	REQUEST	AUTHORIZED	FY 2006	FY 2007	TOTAL TO COMPLETE
	a. SCIENTIFIC	0.0	0.0	0.0	0.0				
	b. OTHER DIRECT	0.0	0.0	0.0	0.0				
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0				
d. TOTAL DIRECT	0.0	0.0	0.0	0.0					
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	0	0	0	0				
	b. TOTAL COSTS	8	0	0	0				
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS								
	PROPOSED	AUTHORIZED		PROPOSED SCHEDULE	AUTHORIZED SCHEDULE				
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO.		REVISION NO.		CONTRACTOR NO. 78305		DATE PREPARED 04-15-03	
22. STAFFING (in staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC.....	0.9	0.0	0.0	0.0				
	b. OTHER DIRECT.....	0.0	0.0	0.0	0.0				
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0				
d. TOTAL DIRECT.....	0.9	0.0	0.0	0.0					
23. OBLIGATIONS AND COSTS (in thousands)									
a. TOTAL OBLIGATIONS		0	0	0	0				
b. TOTAL COSTS.....		168	0	0	0				
24. EQUIPMENT (in thousands)									
a. EQUIPMENT OBLIGATIONS		0	0	0	0				
b. EQUIPMENT COSTS.....		0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)									
FY 2005 DOLLARS					PROPOSED SCHEDULE		AUTHORIZED SCHEDULE		
PROPOSED			AUTHORIZED						
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. CH-ANLWRA	REVISION NO.	CONTRACTOR NO. 23830	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC	1.3	2.4	2.4	0.6		0.3	0.3	
	b. OTHER DIRECT	0.3	0.5	0.5	0.0		0.0	0.0	
	c. TECHNICAL SERVICES*	0.4	0.4	0.4	0.1		0.0	0.0	
d. TOTAL DIRECT	2.0	3.3	3.3	0.7		0.3	0.3		
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	410	1676	1676	156		162	169	
	b. TOTAL COSTS	404	1606	1606	236		166	169	
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE		AUTHORIZED SCHEDULE		
	PROPOSED		AUTHORIZED						
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 053 12 04	REVISION NO.	CONTRACTOR NO. 24187*	DATE PREPARED 04-15-03					
22. STAFFING (in staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	b. OTHER DIRECT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
d. TOTAL DIRECT	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	130	137	137	143	150	158		
	b. TOTAL COSTS	193	140	140	143	150	158		
24. Equipment (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED	AUTHORIZED							
26. REPORTING REQUIREMENTS									
*24187, 24668, 24669									

*Technical services staffing includes ANL support divisions' scientific effort.

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO. ANL 053 13 04		REVISION NO.		CONTRACTOR NO. 24513*		DATE PREPARED 04-15-03		
22. STAFFING (In staff years)		PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
	ESTIMATE			REVISED	REQUEST	AUTHORIZED				
a. SCIENTIFIC			0.2	0.0	0.0	0.0				
b. OTHER DIRECT			0.0	0.0	0.0	0.0				
c. TECHNICAL SERVICES*			0.0	0.0	0.0	0.0				
d. TOTAL DIRECT			0.2	0.0	0.0	0.0				
23. OBLIGATIONS AND COSTS (In thousands)										
a. TOTAL OBLIGATIONS			0	0	0	0				
b. TOTAL COSTS			60	0	0	0				
24. Equipment (In thousands)										
a. EQUIPMENT OBLIGATIONS			0	0	0	0				
b. EQUIPMENT COSTS			0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)		FY 2005 DOLLARS								
		PROPOSED		AUTHORIZED		PROPOSED SCHEDULE		AUTHORIZED SCHEDULE		
26. REPORTING REQUIREMENTS										
*24513, 24518, 24553, 24642										

*Technical services staffing includes ANL support divisions' scientific effort.

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 053 14 04	REVISION NO.	CONTRACTOR NO. 24567*	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC	0.1	0.0	0.0	0.0				
	b. OTHER DIRECT	0.0	0.0	0.0	0.0				
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0				
d. TOTAL DIRECT	0.1	0.0	0.0	0.0					
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	0	0	0	0				
	b. TOTAL COSTS	15	0	0	0				
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED	AUTHORIZED							
26. REPORTING REQUIREMENTS									

*24567, 24660, 24668

*Technical services staffing includes ANL support divisions' scientific effort.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 053 00 04	1a. WORK PROPOSAL NO.: 17	2. REVISION NO.:	3. DATE PREPARED: 04-15-03	3a. CONTRACTOR NO.: 24841
4. WORK PACKAGE TITLE: Arms Control & Nonproliferation		4a. WORK PROPOSAL TITLE: IAEA Safeguards & Nonproliferation		
5. BUDGET & REPORTING CODE: NN-40-03	6. WORK PROPOSAL TERM: Begin: End:	7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:	
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Cherry, R. (202) 586-8460		11. HEADQUARTERS ORGANIZATION: Office of Nonproliferation & International Security		14. DOE ORG. CODE: NA-243
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:		12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH
10. CONTRACTOR WORK PROPOSAL MANAGER:		13. CONTRACTOR NAME: University of Chicago/ANL		18. CODE: 12
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST?				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): The purpose of this proposal is to provide information and generate reports for DOE/NA-243 on the status of research reactors, including fuel status.				
19. CONTRACTOR WORK PROPOSAL MANAGER:			20. OPERATIONS OFFICE REVIEW OFFICIAL:	
_____			_____	04-15-03
			SIGNATURE	DATE
21. DETAIL ATTACHMENTS: (See Instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other (specify)	

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 053 17 04	REVISION NO.	CONTRACTOR NO. 24841	DATE PREPARED 04-15-03					
22. STAFFING (in staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC	0.1	0.0	0.0	0.0				
	b. OTHER DIRECT	0.0	0.0	0.0	0.0				
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0				
d. TOTAL DIRECT	0.1	0.0	0.0	0.0					
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	25	0	0	0				
	b. TOTAL COSTS	25	0	0	0				
24. Equipment (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED	AUTHORIZED							
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 053 00 04		1a. WORK PROPOSAL NO.: 18		2. REVISION NO.:		3. DATE PREPARED: 04-15-03		3a. CONTRACTOR NO.: 24852	
4. WORK PACKAGE TITLE: Arms Control and Nonproliferation					4a. WORK PROPOSAL TITLE: Iraqi Weapons of Mass Destruction Elimination				
5. BUDGET & REPORTING CODE: NN-40-03			6. WORK PROPOSAL TERM: Begin: End:		7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO		7a. PRINCIPAL INVESTIGATORS:		
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Cherry, R. (202) 586-8460				11. HEADQUARTERS ORGANIZATION: Office of Nonproliferation & International Security			14. DOE ORG. CODE: NA-243		
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:				12. OPERATIONS OFFICE: Chicago			15. DOE ORG. CODE: CH		
10. CONTRACTOR WORK PROPOSAL MANAGER:				13. CONTRACTOR NAME: University of Chicago/ANL			16. CODE: 12		

17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST? YES NO

18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less):

The purpose of this proposal is to provide technical expertise, equipment, instrumentation, specialized software and technology to the International Atomic Energy Agency's (IAEA) Iraq Nuclear Verification Office (INVO) and the United Nations Monitoring, Verification and Inspection Commission (UNMOVIC) in support of their efforts to conduct weapons of mass destruction (WMD) inspections in Iraq.

19. CONTRACTOR WORK PROPOSAL MANAGER: _____		20. OPERATIONS OFFICE REVIEW OFFICIAL: _____	
		SIGNATURE	DATE 04-15-03

21. DETAIL ATTACHMENTS: (See Instructions.) Task Proposals Attached.

<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other (specify)

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 053 18 04	REVISION NO.	CONTRACTOR NO. 24852	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC	0.2	0.0	0.0	0.0	0.0			
	b. OTHER DIRECT	0.0	0.0	0.0	0.0	0.0			
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0	0.0			
d. TOTAL DIRECT	0.2	0.0	0.0	0.0	0.0				
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	50	0	0	0				
	b. TOTAL COSTS	50	0	0	0				
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED	AUTHORIZED							
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 053 16 04	REVISION NO.	CONTRACTOR NO. 24801*	DATE PREPARED 04-15-03					
22. STAFFING (In staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC		1.6	1.7	1.7	0.0			
	b. OTHER DIRECT		0.0	0.0	0.0	0.0			
	c. TECHNICAL SERVICES*		0.0	0.0	0.0	0.0			
d. TOTAL DIRECT		1.6	1.7	1.7	0.0				
23. OBLIGATIONS AND COSTS (In thousands)	a. TOTAL OBLIGATIONS	401	380	380	0				
	b. TOTAL COSTS	383	402	402	0				
24. Equipment (In thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED	AUTHORIZED							
26. REPORTING REQUIREMENTS									
<p>*24801, 24842</p>									

*Technical services staffing includes ANL support divisions' scientific effort.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 053 00 04	1a. WORK PROPOSAL NO.: 15	2. REVISION NO.:	3. DATE PREPARED: 04-15-03	3a. CONTRACTOR NO.: 24790
4. WORK PACKAGE TITLE: Arms Control and Nonproliferation			4a. WORK PROPOSAL TITLE: IAEA Safeguards & Nonproliferation Policy	
5. BUDGET & REPORTING CODE: NN-40-03	6. WORK PROPOSAL TERM: Begin: End:		7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Cherry, R. (202) 586-8460		11. HEADQUARTERS ORGANIZATION: Office of Nonproliferation & International Security		14. DOE ORG. CODE: NA-243
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:		12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH
10. CONTRACTOR WORK PROPOSAL MANAGER:		13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST?				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): Provide possible future technical support for International Atomic Energy Agency (IAEA) physical protection surveys in the Congo.				
19. CONTRACTOR WORK PROPOSAL MANAGER:			20. OPERATIONS OFFICE REVIEW OFFICIAL:	
			04-15-03	
			SIGNATURE DATE	
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements <input type="checkbox"/> d. Background <input type="checkbox"/> g. Future accomplishments <input type="checkbox"/> j. Explanation of milestones <input type="checkbox"/> b. Publications <input type="checkbox"/> e. Approach <input type="checkbox"/> h. Relationships to other projects <input type="checkbox"/> k. Human or Animal Subjects Activities <input type="checkbox"/> c. Purpose <input type="checkbox"/> f. Technical progress <input type="checkbox"/> i. Environmental assessment <input type="checkbox"/> l. Other (specify)				

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO. ANL 053 15 04		REVISION NO.		CONTRACTOR NO. 24790		DATE PREPARED 04-15-03	
22. STAFFING (In staff years)			FY 2004		FY 2005				
	PRIOR YEARS	FY 2003	ESTIMATE	REVISED	REQUEST	AUTHORIZED	FY 2006	FY 2007	TOTAL TO COMPLETE
a. SCIENTIFIC		0.4	0.0	0.0	0.0				
b. OTHER DIRECT		0.0	0.0	0.0	0.0				
c. TECHNICAL SERVICES*		0.0	0.0	0.0	0.0				
d. TOTAL DIRECT		0.4	0.0	0.0	0.0				
23. OBLIGATIONS AND COSTS (In thousands)									
a. TOTAL OBLIGATIONS		0	0	0	0				
b. TOTAL COSTS		100	0	0	0				
24. Equipment (In thousands)									
a. EQUIPMENT OBLIGATIONS		0	0	0	0				
b. EQUIPMENT COSTS		0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)		FY 2005 DOLLARS							
		PROPOSED		AUTHORIZED		PROPOSED SCHEDULE		AUTHORIZED SCHEDULE	
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

U. S. DEPARTMENT OF ENERGY

FIELD WORK PROPOSAL

1. WORK PACKAGE NO.: ANL 053 00 04		1a. WORK PROPOSAL NO.: 04		2. REVISION NO.:		3. DATE PREPARED: 04-15-03		3a. CONTRACTOR NO.: 24361			
4. WORK PACKAGE TITLE: Arms Control & Nonproliferation					4a. WORK PROPOSAL TITLE: BN-350 Fuel Disposition Program						
5. BUDGET & REPORTING CODE: NN-40-01			6. WORK PROPOSAL TERM: Begin: End:		7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO		7a. PRINCIPAL INVESTIGATORS: -				
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Phillips, J. (202) 586-8901			11. HEADQUARTERS ORGANIZATION: Office of Nonproliferation & International Security			14. DOE ORG. CODE: NA-241					
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:			12. OPERATIONS OFFICE: Chicago			15. DOE ORG. CODE: CH					
10. CONTRACTOR WORK PROPOSAL MANAGER:			13. CONTRACTOR NAME: University of Chicago/ANL			16. CODE: 12					
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST?								<input type="checkbox"/> YES		<input checked="" type="checkbox"/> NO	
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): The BN-350 Spent Fuel Disposition Program will safely and securely package, transport, and store the plutonium containing spent fuel from the Kazakhstan BN-350 reactor. Argonne National Laboratory (ANL) provides scientific and engineering expertise to support this program in the areas of: 1) scientific assessments of the fuel, 2) packaging technology design, 3) storage technology design, 4) safety analysis, 5) packaging equipment procurement, and 6) program management support for DOE.											
19. CONTRACTOR WORK PROPOSAL MANAGER:					20. OPERATIONS OFFICE REVIEW OFFICIAL:						
					04-15-03						
					SIGNATURE		DATE				
21. DETAIL ATTACHMENTS: (See Instructions.) Task Proposals Attached.											
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other (specify)

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 053 04 04	REVISION NO.	CONTRACTOR NO. 24361	DATE PREPARED 04-15-03					
22. STAFFING (in staff years)			FY 2004		FY 2005				
	PRIOR YEARS	FY 2003	ESTIMATE	REVISED	REQUEST	AUTHORIZED	FY 2006	FY 2007	TOTAL TO COMPLETE
	a. SCIENTIFIC	1.2	0.8	0.8	0.8				
	b. OTHER DIRECT	0.0	0.0	0.0	0.0				
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0				
d. TOTAL DIRECT	1.2	0.8	0.8	0.8					
23. OBLIGATIONS AND COSTS (in thousands)									
	a. TOTAL OBLIGATIONS	0	0	0	116				
b. TOTAL COSTS	370	250	250	250					
24. Equipment (in thousands)									
	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
b. EQUIPMENT COSTS	0	0	0	0					
25. MILESTONE SCHEDULE (Tasks)	FY 2006 DOLLARS								
	PROPOSED	AUTHORIZED			PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
26. REPORTING REQUIREMENTS									

*Technical services staffing includes ANL support divisions' scientific effort.

**U. S. DEPARTMENT OF ENERGY
FIELD WORK PROPOSAL**

1. WORK PACKAGE NO.: ANL 052 00 04	1a. WORK PROPOSAL NO.: 06	2. REVISION NO.:	3. DATE PREPARED: 04-15-03	3a. CONTRACTOR NO.: 24855
4. WORK PACKAGE TITLE: International Nuclear Safety & Cooperation			4a. WORK PROPOSAL TITLE: Technical Support Activities	
5. BUDGET & REPORTING CODE: NN-30-04	6. WORK PROPOSAL TERM: Begin: End:		7. IS THIS WORK PACKAGE INCLUDED IN THE INST. PLAN?: <input type="checkbox"/> YES <input type="checkbox"/> NO	7a. PRINCIPAL INVESTIGATORS:
8. HEADQUARTERS/OPERATIONS OFC PROGRAM MANAGER: Reister, Richard (301) 903-0234		11. HEADQUARTERS ORGANIZATION: Office of International Nuclear Safety & Cooperation		14. DOE ORG. CODE: NA-23
9. OPERATIONS OFFICE WORK PROPOSAL REVIEWER:		12. OPERATIONS OFFICE: Chicago		15. DOE ORG. CODE: CH
10. CONTRACTOR WORK PROPOSAL MANAGER:		13. CONTRACTOR NAME: University of Chicago/ANL		16. CODE: 12
17. IS THIS PROPOSAL TO DO WORK THAT INCLUDES A SECURITY INTEREST?				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
18. WORK PROPOSAL DESCRIPTION (Approach, anticipated benefit in 200 words or less): The purpose of this proposal is to provide program analyst technical support for nuclear safety and cooperation for the Office of International Nuclear Safety and Cooperation (NA-23) and Office of Defense Nuclear Nonproliferation (NA-20).				
19. CONTRACTOR WORK PROPOSAL MANAGER:			20. OPERATIONS OFFICE REVIEW OFFICIAL:	
			_____ SIGNATURE	04-15-03 DATE
21. DETAIL ATTACHMENTS: (See instructions.) Task Proposals Attached.				
<input type="checkbox"/> a. Facility requirements	<input type="checkbox"/> d. Background	<input type="checkbox"/> g. Future accomplishments	<input type="checkbox"/> j. Explanation of milestones	
<input type="checkbox"/> b. Publications	<input type="checkbox"/> e. Approach	<input type="checkbox"/> h. Relationships to other projects	<input type="checkbox"/> k. Human or Animal Subjects Activities	
<input type="checkbox"/> c. Purpose	<input type="checkbox"/> f. Technical progress	<input type="checkbox"/> i. Environmental assessment	<input type="checkbox"/> l. Other (specify)	

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO. ANL 052 06 04		REVISION NO.		CONTRACTOR NO. 24855		DATE PREPARED 04-15-03		
22. STAFFING (in staff years)		PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
	ESTIMATE			REVISED	REQUEST	AUTHORIZED				
a. SCIENTIFIC		1.0	1.0	1.0	1.0					
b. OTHER DIRECT		0.0	0.0	0.0	0.0					
c. TECHNICAL SERVICES*		0.0	0.0	0.0	0.0					
d. TOTAL DIRECT		1.0	1.0	1.0	1.0					
23. OBLIGATIONS AND COSTS (in thousands)										
a. TOTAL OBLIGATIONS		264	284	284	284					
b. TOTAL COSTS		249	282	282	301					
24. Equipment (in thousands)										
a. EQUIPMENT OBLIGATIONS		0	0	0	0					
b. EQUIPMENT COSTS		0	0	0	0					
25. MILESTONE SCHEDULE (Tasks)		FY 2005 DOLLARS								
	PROPOSED	AUTHORIZED		PROPOSED SCHEDULE		AUTHORIZED SCHEDULE				
26. REPORTING REQUIREMENTS										

*Technical services staffing includes ANL support divisions' scientific effort.

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 052 05 04	REVISION NO.	CONTRACTOR NO. 24835	DATE PREPARED 04-15-03						
22. STAFFING (in staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE	
			ESTIMATE	REVISED	REQUEST	AUTHORIZED				
	a. SCIENTIFIC		7.4	8.7	8.7	10.3		2.5		
	b. OTHER DIRECT		0.1	0.3	0.3	0.3		0.1		
	c. TECHNICAL SERVICES*		0.0	0.0	0.0	0.0		0.0		
d. TOTAL DIRECT		7.5	9.0	9.0	10.6		2.6			
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	2000	2000	2000	2500		500			
	b. TOTAL COSTS	1613	2122	2122	2613		652			
24. Equipment (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0					
	b. EQUIPMENT COSTS	0	0	0	0					
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE				
	PROPOSED	AUTHORIZED								
26. REPORTING REQUIREMENTS										

*Technical services staffing includes ANL support divisions' scientific effort.

WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT OBLIGATIONS AND COSTS

CONTRACTOR NAME University of Chicago/ANL	WORK PROPOSAL NO. ANL 052 02 04	REVISION NO.	CONTRACTOR NO. 24618*	DATE PREPARED 04-15-03					
22. STAFFING (in staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC	2.4	0.0	0.0	0.0				
	b. OTHER DIRECT	0.2	0.0	0.0	0.0				
	c. TECHNICAL SERVICES*	0.0	0.0	0.0	0.0				
d. TOTAL DIRECT	2.6	0.0	0.0	0.0					
23. OBLIGATIONS AND COSTS (in thousands)	a. TOTAL OBLIGATIONS	0	0	0	0				
	b. TOTAL COSTS	692	0	0	0				
24. Equipment (in thousands)	a. EQUIPMENT OBLIGATIONS	0	0	0	0				
	b. EQUIPMENT COSTS	0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)	FY 2005 DOLLARS				PROPOSED SCHEDULE	AUTHORIZED SCHEDULE			
	PROPOSED	AUTHORIZED							
26. REPORTING REQUIREMENTS									

*24618, 24792

*Technical services staffing includes ANL support divisions' scientific effort.

**WORK PROPOSAL REQUIREMENTS FOR OPERATING/EQUIPMENT
OBLIGATIONS AND COSTS**

CONTRACTOR NAME University of Chicago/ANL		WORK PROPOSAL NO. ANL 052 07 04		REVISION NO.		CONTRACTOR NO. 24828		DATE PREPARED 04-15-03	
22. STAFFING (in staff years)	PRIOR YEARS	FY 2003	FY 2004		FY 2005		FY 2006	FY 2007	TOTAL TO COMPLETE
			ESTIMATE	REVISED	REQUEST	AUTHORIZED			
	a. SCIENTIFIC.....	2.4	3.5	3.5	3.5		3.3	3.2	
	b. OTHER DIRECT.....	0.2	0.2	0.2	0.0		0.0	0.0	
	c. TECHNICAL SERVICES*.....	0.0	0.0	0.0	0.0		0.0	0.0	
d. TOTAL DIRECT.....	2.6	3.7	3.7	3.5		3.3	3.2		
23. OBLIGATIONS AND COSTS (in thousands)									
a. TOTAL OBLIGATIONS.....		1900	3300	3300	3300		3300	3300	
b. TOTAL COSTS.....		1800	3150	3150	3200		3350	3333	
24. EQUIPMENT (in thousands)									
a. EQUIPMENT OBLIGATIONS.....		0	0	0	0				
b. EQUIPMENT COSTS.....		0	0	0	0				
25. MILESTONE SCHEDULE (Tasks)									
FY 2005 DOLLARS					PROPOSED SCHEDULE		AUTHORIZED SCHEDULE		
PROPOSED			AUTHORIZED						
26. REPORTING REQUIREMENTS									
<p>*24828, 24829, 24830, 24831, 24832, 24833, 24834</p>									

*Technical services staffing includes ANL support divisions' scientific effort.

CONTRACTOR NAME University of Chicago/ANL	CONTRACTOR CODE 12	CONTRACTOR NUMBER 24828	
WORK PACKAGE NUMBER ANL 052 00 04	WORK PROPOSAL NUMBER 07	DATE PREPARED 04-15-03	REVISION NUMBER

20. DETAIL ATTACHMENTS: (See Instructions.) Task Proposals Attached.

- | | | | |
|---|--|---|---|
| <input type="checkbox"/> a. Facility requirements | <input type="checkbox"/> d. Background | <input type="checkbox"/> g. Future accomplishments | <input type="checkbox"/> j. Explanation of milestones |
| <input type="checkbox"/> b. Publications | <input type="checkbox"/> e. Approach | <input type="checkbox"/> h. Relationships to other projects | <input type="checkbox"/> k. Human or Animal Subjects Activities |
| <input type="checkbox"/> c. Purpose | <input type="checkbox"/> f. Technical progress | <input type="checkbox"/> i. Environmental assessment | <input type="checkbox"/> l. Other |

f. Technical Progress and g. future accomplishments

The program was initiated in FY2002 in accordance with the above strategy with initial establishment of the program and initial visits to the cycle 1 highest priority facilities in Romania, Uzbekistan, and Kazakhstan. A meeting was also held with DOE whereby projects were selected for initiation in FY03 for those facilities. Likewise in accordance with the above strategy, FY2003 will see completion of the following tasks:

Program Management Tasks

1. Completion and Approval of the IRRSEP Program Plan
2. Completion of a resource loaded schedule
3. Initiation of change control
4. Completion of Research Reactor lists and databases
5. Completion of Monthly and quarterly status reports

Technical Tasks

1. Complete follow-up visits to cycle 1 facilities in Uzbekistan, Kazakhstan, and Romania to gather information for contracting
 - a. 9 projects for Uzbekistan – fire suppression, reactor protection and control system replacement, provide radios, spare parts, personnel training, emergency power upgrade, provide NDE equipment, provide portable underwater lighting, provide water quality analysis equipment
 - b. 16 projects for Kazakhstan – fire protection (3 projects), provide 48v battery replacement, provide new CRD cabling and motors, provide water intrusion monitors, provide new PA system, provide for training, provide new reactor information system, provide for NDE training and equipment, provide spare parts, provide portable neutron monitors, assess spent fuel condition, replace reactor hall heat exchangers, provide new water quality analysis equipment
 - c. 4 projects for Romania - upgrade of HEPA filtration system for away from reactor fuel storage, investigation of fuel pool water quality, evaluation of HEPA filters for reactor facility, upgrade of radiation instrumentation
 - i. in addition, not specifically connected with the Romanian facility, a decommissioning workshop will held in Romania (with Romania and DOE as hosts) with invitees for many of the Russian made research reactor facilities in the FSU)
2. Initiate contracts to complete agreed upon projects for cycle 1 facilities
3. Complete first year projects for cycle 1 facilities before the end of the FY
4. Complete cycle 2 initial fact finding visits (Bulgaria, Latvia, Ukraine, and Poland) to identify possible projects at those facilities
5. Prioritize and select with DOE those cycle 2 projects for initiation in FY04.
6. Establish the ISTC partner arrangement with IPPE in Russia to allow investigation into the criticality safety of the Sosnovy Bor lead-bismuth prototype reactor near St. Petersburg, Russia (action for Brookhaven National Laboratory – ANL is providing funding to BNL for this).

*24828, 24829, 24830, 24831, 24832, 24833, 24834