

URGENT

RF: [E]  
ID: [E]

2<sup>nd</sup> B

ROUTING AND CONCURRENCE SHEET

DATE: 2/27/01

INITIALS

1. MAITCHESON - CONCUR Ma DATE: 2/27/2001  
2. RROUGH - CONCUR \_\_\_\_\_ DATE: 2/ /2001

PLEASE RETURN TO M. AITCHESON, T-10 D11 ASAP

3. MFARR - CONCUR \_\_\_\_\_ DATE: 2/ /2001  
4. TKING - CONCUR, SIGN \_\_\_\_\_ DATE: 2/ /2001

RETURN TO M. AITCHESON ASAP

SUBJECT: DOE/NRC REIMBURSABLE AGREEMENT RE: PEBBLE BED MODULAR REACTOR (PBMR) TECHNOLOGY AND FUEL EVALUATION - \$20K FOR FOREIGN TRAVEL TO SOUTH AFRICA ON FEBRUARY 24, 2001 - MARCH 3, 2001

THE ORIGINAL IS IN THE MAIL AND WILL BE PLACED IN THIS PACKAGE AS SOON AS IT IS RECEIVED. FOR EXPEDIENCY, PLEASE CONCUR. URGENT TRAVEL TO BE PERFORMED ON FEBRUARY 24, 2001

THE FUNDS PROVIDED UNDER THIS REIMBURSABLE AGREEMENT WILL PAY FOR TRAVEL EXPENSES ONLY TO SOUTH AFRICA FOR ASHOK THADANI AND TOM KING.

ANY QUESTIONS, PLEASE CONTACT MARIANNE AITCHESON

FROM: M. AITCHESON 415-5822 EMAIL MMR

DISTR

Subj: PBMR PROJECT

J. Dorfman, OCFO/DPBA

T. King, DRAA

M. Farr, DRAA

M. Aitcheson, PMG/PMPDAS

N. Price, FMG/PMPDAS

T. Stevenson, OCFO/DAF

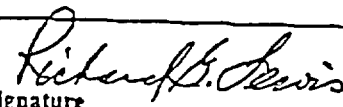
S. Rubin, DSARE/RES

J. Golder, OCFO

HH/1

United States Department of Energy Washington, D.C. 20585 DOE Interagency Agreement/Amendment Part 1-General Information		1. DOE IA Identification (ID) No.: DE-AI01-01-NE-23069		4. TA No.:	
		2. Servicing Agency IA ID No. (If known):		5. Modification No: A-000	
		3. DOE Procurement Request No.: 01-NE23069.000			
6. Name and Address of DOE Technical Office:  U.S. Department of Energy Office of Nuclear Energy, Science and Technology NE-20 19901 Germantown Road Germantown, MD 20874-1290			7. Name and Address of Servicing Agency:  U.S. Nuclear Regulatory Commission (NRC) One White Flint North 11555 Rockville Pike Rockville, Maryland 20852-2738		
8. Project Title: Pebble Bed Modular Reactor (PBMR) Technology and Fuel Evaluation					
9. DOE Project Officer (Name, Address, Phone No.):  Mark Roth Office of Nuclear Energy, Science and Technology NE-20 19901 Germantown Road Germantown, MD 20874-1290 301-903-7731			10. Servicing Agency Project Officer (Name, Address, Phone No.):  Thomas L. King Office of Nuclear Regulatory Research U.S. Nuclear Regulatory Commission Washington, D.C. 20555 Mail Stop: T-10 E50		
11. Project Period: 2/19/01 - 3/9/01			12. Budget Period: 2/19/01 - 3/9/01		
13. Scope of Work: See Exhibit 1					
14. Deliverables/Reporting Requirements: See Exhibit 2					
15. (a) This IA is issued pursuant to the Economy Act of 1932, as amended (31 U.S.C. 1535) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (b) This IA is issued to provide Financial Assistance support for Project Activities <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, provide Statutory Authority					
Funds/Obligations		Previous Amount		Amount This	
16. DOE Amount		0		20,000.00	
17. DOE In-Kind Amount		0		0	
18. Servicing Agency Amount		0		0	
19. Servicing Agency In-Kind Amount		0		0	
20. Total Project Cost		\$ 20,000.00		\$ 20,000.00	
21. DOE FUNDS COMMITTED					
22. App. Symbol	23. B&R No.	24. Dollar Amt.	25. Allot.	26. Object	27. AFP
89X0224	AF-37-40	20,000.00	CR1491	253	NE/VA
PROJECT MANAGER/INITIATOR					
Mark Roth 29. Name		Suibel, H. H. Schuppert 30. Signature for Mark Roth		2/14/01 31. Date	
				32. Office Code: NE-20	
				33. Telephone No.: 3-3070	
PROGRAMS OFFICIALS, We hereby certify that the funds cited in items 22-28 are being appropriately used.					
Shane Johnson 34. Reviewing Official's Name		35. Signature		2/14/01 36. Date	
Wade Carroll 37. Budget Official's Name		38. Signature		2/15/01 39. Date	
40. Type of Procurement Action (TPA) Code X 1			41. Negotiator Code C 103		
42. Security. Will employees require security clearances for performance of this procurement? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
43. Energy Policy Act. Is this procurement subject to the Energy Policy Act of 1992 (EPACT); I.e., will it directly satisfy an EPACT requirement or objective? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, does it involve either a research and development program or a demonstration of a commercial application? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, see the Notice related to this item. Amount of EPACT funding: _____					

CERTIFYING OFFICIAL, I hereby certify that the funds cited in item 24 are available.			
44. Name: <u>John Squires</u>	45. Signature: <u>[Signature]</u>	46. Date: <u>2/26/01</u>	
47. Initiating Official/Local Office Use			
Part II - Approved Budget - DOE Contribution Plus Servicing Agency Contribution		Doe IA ID No.: DE-AI01-01-NE-23069	
48. Budget Categories	Itemization of This Action	Itemization of Previous Actions	Itemization of All Actions to Date
(a) Personnel			
(b) Fringe Benefits			
(c) Travel	20,000.00	-0-	20,000.00
(d) Equipment			
(e) Supplies			
(f) Procurement/Assistance			
(g) Construction			
(h) Other			
(i) Total Direct Charges			
(j) Indirect Costs: Rate % Base \$			
(k) Total	20,000.00	-0-	20,000.00
(DOE Share 100%) (Servicing Agency Share %)			
49. Is equipment authorized to be furnished by DOE or leased, purchased, or rented with DOE funds? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Identify all equipment costing \$1,000 or more)			
50. Are any of these funds being used on contracts and/or financial assistance <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (See item 48f)			
Type of Contract and/or Financial Assistance <input type="checkbox"/> Grant <input type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Procurement (includes small purchase order)			
Contractor/Recipient Name  N/A	Total Extramural Amount Under This Project  N/A	Percent Funded by DOE (if known)  N/A	
Part III - Funding Methods and Billing Instructions			
51. Funds-Out Agreement/Disbursement Agreement			
<input type="checkbox"/> Reimbursement, or Request for repayment of actual costs must be itemized on OPAC or other Form <input type="checkbox"/> Progress previously approved by DOE's Contracting Officer and submitted to the U.S. Department of Energy, Accounts Payable Division, PO Box 500, Germantown, MD 20875-0500. Quarterly cost reports will be forwarded to the U.S. Department of Energy, Accounts Payable Division, P.O. Box 500, Germantown, MD 20875-0500.			
<input type="checkbox"/> Monthly <input type="checkbox"/> Quarterly <input checked="" type="checkbox"/> Upon Completion of Work			
<input checked="" type="checkbox"/> Advance Only available for use by Federal agencies on working capital funds or with appropriate justification of need for this type of payment method. Unexpended funds at completion of work will be returned to DOE. Quarterly cost reports will be forwarded to the U.S. Department of Energy, Accounts Payable Division, P.O. Box 500, Germantown, MD 20875-0500.			
<i>via wire transfer at time of award R/S</i>			

Part IV - Acceptance Conditions		DOE IA ID No. DE-AI01-NE-23069
<b>52. General Conditions</b>		
The Servicing Agency covenants and agrees that it will expeditiously initiate and complete the project for which funds have been awarded under this agreement.		
<b>Special Conditions:</b>		
<b>A. Patents and Technical Data.</b> Disposition of rights to inventions made in any contract, grant, or cooperative agreement under this Agreement with any small business firm or domestic nonprofit organization will be in accordance with 35 U.S.C. 200-212. In all other contracts, grants, or cooperative agreements under this agreement, the Servicing Agency shall coordinate the disposition of rights to inventions with the DOE Patent Counsel.		
<b>B. Issue Resolution.</b> Unless otherwise indicated below, it is expected that programmatic guidance will be handled through discussions between the staff of the Servicing Agency's Project Officer listed on the Face Page, item 10 and the DOE Project Officer, Face Page, item 9. Any administrative issues including billing questions, unresolved items or issues requiring a formal change to this Agreement shall be addressed to the DOE Contracting Officer, page 3 of 3, item 54.		
<b>C. Termination.</b> DOE may terminate this Agreement upon 30 calendar days written notice of such termination addressed to the Servicing Agency. In the event of such termination the Servicing Agency shall be reimbursed, to the extent permitted, for obligations actually incurred to the effective date of the termination and for commitments extending beyond the effective date of termination to a date not later than the date upon which the Agreement would have expired if not terminated under this paragraph, which the Servicing Agency, in the exercise of due diligence, is unable to cancel. Payments under this Agreement, including payments under this article shall not exceed the amount(s) committed under this Agreement.		
<b>D. Other.</b> Government estimate for the Project Period shown in Block 11 is \$ 20,000.00		
<b>PART V - OFFER AND ACCEPTANCE</b>		
Note: The agreement/modification must be accepted by the Servicing Agency official in duplicate and one original returned to the party named in item 54. The agreement/modification must be forwarded to the address cited in Item 54 after acceptance signature.		
Receipt of a written refusal or failure to return the properly executed document will result in rejection of all payment requests to the DOE's Controller's Office.		
DOE IA Awarding and Administrative Office (for Administrative Assistance)		DOE Program Office (for Technical Assistance)
<b>54. Organization/Address</b> U.S. Department of Energy Office of Program Services Attn: DE-AI01-01-NE-23069 1000 Independence Avenue, S. W. Washington, DC 20585		<b>55. Organization/Address</b> Mark Roth, NE-20 U.S. Department of Energy 19901 Germantown Road Germantown, MD 20874
<b>CERTIFICATION</b>		
All signers certify that the statements made on this form and all attachments thereto are true, accurate, and complete.		
Department of Energy Contracting Officer		
<b>56. Signature</b> 		<b>Richard G. Lewis</b> Contracting Officer Typed Name and Title  <b>2/23/01</b> Date
Acceptance by the Authorizing Official on Behalf of the Servicing Agency		
<b>57. Signature</b>		<b>Thomas L. King, Director</b> Division of Risk Analysis and Applications, RES/NRC  Typed Name and Title  Date

## Statement of Work

Exhibit 1

Pebble Bed Modular Reactor (PBMR) Technology and Fuel EvaluationObjective

To provide evaluation of the Pebble Bed Modular Reactor (PBMR) for the U.S. Department of Energy (DOE), Office of Nuclear Energy, Science and Technology, Office of Technology and International Cooperation (NE-20). This evaluation effort includes the assessment of the requirements for licensing of the PBMR in the USA.

Description of Work

## PHASE I

Two technical experts from NRC will travel to South Africa and visit the following South African organizations:

1. The Department of Mines and Energy (DME) to learn the status, projected next steps and schedule of the PBMR project.
2. The National Nuclear Regulatory to explore the safety aspects of PBMR technology.
3. Eskom, the South African utility and parent of PBMR Ltd. to explore details of the PBMR project development, supporting research and deployment plans.
4. The Nuclear Energy Corporation of South Africa (NECSA) to exchange information about the indigenously-manufactured fuel to be used in the PBMR, including testing of that fuel.

## PHASE II

Whether a Phase II will be required will be based on the results of Phase I.

Potential work areas include:

- Cooperation in fuel testing
- Cooperation or support in development of regulatory requirements for the PBMR

All other editions obsolete

## Reporting Requirements Checklist

1. Program/Project Title Pebble Bed Modular Reactor (PBMR) Technology and Fuel Evaluation		2. Identification number DE-AI01-01-NE-23069	
3. Participant Name and Address Thomas L. King Office of Nuclear Regulatory Research U.S. Nuclear Regulatory Commission Washington, D.C. 20555 Mail Stop: T-10 E50			
4. Planning and Reporting Requirements			
A. General Managements	<u>Frequent</u> Y	E. Financial Incentives	<u>Frequent</u> Y
<input type="checkbox"/> Management Plan <input type="checkbox"/> Status Report <input checked="" type="checkbox"/> Summary Report	F	<input type="checkbox"/> Statement of Income and Expense <input type="checkbox"/> Balance Sheet <input type="checkbox"/> Cash Flow Statement <input type="checkbox"/> Statement of Changes in Financial Position <input type="checkbox"/> Loan Drawdown Report <input type="checkbox"/> Operating Budget <input type="checkbox"/> Supplementary Information	
B. Schedule/Labor/Cost		F. Technical	
<input type="checkbox"/> Milestone Schedule/Plan <input type="checkbox"/> Labor Plan <input type="checkbox"/> Facilities Capital Cost of Money Factors Computation <input type="checkbox"/> Contract Facilities Capital and Cost of Money <input type="checkbox"/> Cost Plan <input type="checkbox"/> Milestone Schedule/Status <input type="checkbox"/> Labor Management Report <input type="checkbox"/> Cost Management Report		<input type="checkbox"/> Notice of Energy RD&D Project (Required with any of the following)  <input type="checkbox"/> Technical Progress Report  <input type="checkbox"/> Draft for Review <input type="checkbox"/> Final for Approval  <input type="checkbox"/> Topical Report <input type="checkbox"/> Final Technical Report  <input type="checkbox"/> Draft for Review <input type="checkbox"/> Final for Approval  <input type="checkbox"/> Software <input type="checkbox"/> Other (Specify) _____	
C. Exception Reports			
<input type="checkbox"/> Conference Record <input type="checkbox"/> Hot Line Report			
D. Performance Measurement			
<input type="checkbox"/> Management Control System Description <input type="checkbox"/> WBS Dictionary  <input type="checkbox"/> Index <input type="checkbox"/> Element Definition  <input type="checkbox"/> Cost Performance Reports  <input type="checkbox"/> Format 1 - WBS <input type="checkbox"/> Format 2 - Function <input type="checkbox"/> Format 3 - Baseline			
5. Frequency Codes			
A - As Required		M - Monthly	S - Semi-annually
C - Change to Contractual Agreement Changes		O - Once After Award	X - With Proposal/Bld/Application or
F - Final (end of effort)		Q - Quarterly	Y - Yearly or Upon Renewal of Agreement
6. Special Instructions (Attachments)			
<input checked="" type="checkbox"/> Report Distribution List/Addressees <input type="checkbox"/> Reporting Elements <input type="checkbox"/> Due Dates		<input type="checkbox"/> Analysis Thresholds <input type="checkbox"/> Work Breakdown Structure <input type="checkbox"/> Other	

7. Prepared by (Signature and Date)

*Simbel H. H. Schuppert*

Mark Roth

Date 2/14/01

8. Reviewed By (Signature and Date)

*Shane Johnson*

Shane Johnson

Date

2/14/01

## Addressee:

Mark Roth  
Office of Nuclear Energy, Science and Technology  
NE-20  
19901 Germantown Road  
Germantown, MD 20874-1290  
301-903-7731

# URGENT

## ROUTING AND CONCURRENCE SHEET

DATE: 2/16/01

### INITIALS

- |    |                      |           |                 |
|----|----------------------|-----------|-----------------|
| 1. | MAITCHESON - CONCUR  | <u>Ma</u> | DATE: 2/16/2001 |
| 2. | RROUGH - CONCUR      | <u>MR</u> | DATE: 2/17/2001 |
| 3. | MFARR - CONCUR       | _____     | DATE: 2/ /2001  |
| 4. | TKING - CONCUR, SIGN | _____     | DATE: 2/ /2001  |

RETURN TO M. AITCHESON ASAP

SUBJECT: DOE/NRC REIMBURSABLE AGREEMENT RE: PEBBLE BED MODULAR REACTOR (PBMR) TECHNOLOGY AND FUEL EVALUATION - \$20K FOR FOREIGN TRAVEL TO SOUTH AFRICA ON FEBRUARY 24, 2001 - MARCH 3, 2001

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ANY QUESTIONS, PLEASE CONTACT MARIANNE AITCHESON

FROM: M. AITCHESON 415-5822 EMAIL MMR

### DISTR

Subj: PBMR PROJECT

J. Dorfman, OCFO/DPBA

T. King, DRAA

M. Farr, DRAA

M. Aitcheson, PMG/PMPDAS

N. Price, FMG/PMPDAS

T. Stevenson, OCFO/DAF



Department of Energy  
Office of Headquarter's Procurement Services  
950 L'Enfant Plaza  
Washington, DC 20585

*Marianne*

## FACSIMILE TRANSMITTAL

To: Thomas King Fax: (301) 415 5062 / 415-5790  
From: Shawn Duncan Date: 2/23/01  
Re: DE-AIOI-NE 23069 Pages: 8  
CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

## Notes:

Attached is Intragency Agreement Number DE-AIOI-NE-23069 for signature. Please have an authorized representative sign and fax to my attention to (202) 287-1451. The hard copies are forthcoming in the mail. The hard copy signature and date should be the same as the facsimile.

Please call me on (202) 287-1440 to verify receipt.

**PLEASE CALL IF YOU DO NOT  
RECEIVE ALL PAGES INDICATED**



Department of Energy  
Washington, DC 20585

February 23, 2001

Mr. Thomas King  
Office of Nuclear Regulatory Research  
U.S. Nuclear Regulatory Commission, Mail Stop: T-10 E50  
Washington, DC 20555


Dear Mr. King:

Enclosed are two copies of Interagency Agreement Number DE-AI01-NE-23069 for technology and evaluation services. Please have an authorized representative sign both copies and return one original to the following address by March 5, 2001:

U.S. Department of Energy  
Office of Headquarters Procurement Services  
1000 Independence Avenue, SW  
Washington, DC 20585  
Attn: Shawn Duncan, MA-543.1

If you should have any questions concerning this letter, please call Ms. Shawn Duncan, Contract Specialist at (202) 287-1440.

Sincerely,

  
Richard G. Lewis  
Contracting Officer

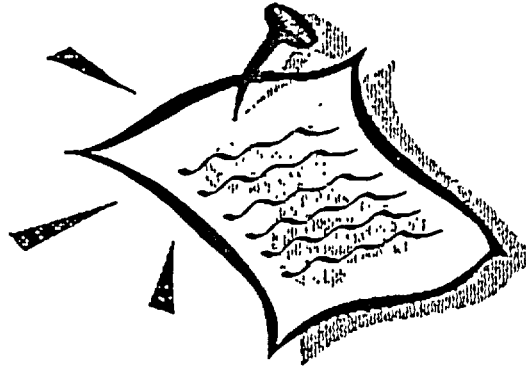
Enclosure: Interagency Agreement Number DE-AI01-NE-23069 (five copies)



Department of Energy  
Germantown, MD 20874

NE-20 Fax Machine  
301-903-5057

Verification: 301-903-5501



Date: 2/14/01

To: Marianne Aitcheson, U.S. Nuclear Regulatory Commission  
Tel. # 301-415-5822 Fax # 301-415-5151

From: Suibel Schuppner, U.S. Department of Energy  
Tel. # 301-903-1652 Fax # 301-903-5057

# of pages including cover sheet: 9

Message:

Per Mark Roth, here is the draft "Funds Out Interagency Agreement" form that has been cleared out from NE-20 and now is in the hands of the NE/DOE budget people. If you have any questions, please call me at 301-903-1652

Thank you,

Suibel Schuppner

INSTRUCTIONSPART I - PROCUREMENT REQUEST & GENERAL INFORMATION

The DOE Form 1270.1 (Rev.) (4-96) form is to be used for all Funds-Out Interagency Agreements (IA's). This document is in itself a Procurement Request, too, and a separate PR is not required. A computer diskette of the completed 3 page form, with Exhibits 1 and 2, (or more) in WP 5.1 or 6.1 must accompany the form. The Contract Specialist will make all corrections necessary before the IA is sent to the Servicing Agency or signed by the DOE Contracting Officer.

**Note to Program Personnel:**

Complete one original and process through the system. The original will be maintained in the official contract file.

1. The original agreement identification number will be assigned by the Program Office. All HQ numbers will begin with DE-AIO1- (fiscal year) (Program Code) and a five digit number. The IA number or year awarded will never change after award.
2. Enter the Servicing Agency's IA identification number (if known).
3. Enter the Procurement Request Number assigned by the Program Budget Official. All HQ PR's begin with 01-(fiscal year) (Program Code) (five digit number) and (.000, .001, .002, etc.)
4. Enter Task Assignment Number only if there is a Master Interagency involved, otherwise leave it blank.
5. Enter the Modification Number. An "A" designation such as "A001" indicates that the PR contains money and a "M" or "M001" designation indicates there is no money, but is an administrative modification.
6. Enter "Department of Energy" followed by the name and mailing address of the DOE organization responsible for technical management of the project. The DOE office should be identified at the Office Director or comparable level for Headquarters or Germantown.
7. Enter the name and mailing address of the "Servicing" or other agency. Identify the Department and the appropriate organizational components with the Department (e.g., DHHS, NASA, etc.)
8. Enter project title. Be concise and use only the space provided. If Superfund site specific, include site location (e.g., city and State).
9. Enter the DOE Project Officer's name, DOE mailing address, and telephone number.
10. Enter the Servicing or other agency's Project Officer's name, other agency mailing address, and telephone number.
11. Enter beginning and ending dates of entire period expected to be needed to complete the project. This period of time should not be longer than 5 years. For projects requiring more than 5 years, appropriate justification must be submitted to the Contracting Officer.
12. Enter the period of time this transaction will fund project activities. (Note: budget period cannot exceed the period of appropriation.)
13. Provide a complete description of the project work (scope of work - SOW) to be performed under the IA. Annual Operating Plans can be considered as SOW's. Attach one or the other to the DOE Form 1270.1 (Rev.). In jointly funded projects, the SOW should describe specific responsibilities of the participating agencies, not just the portion of funds provided by DOE.
14. Provide as Exhibit 2, a DOE Form 1332.1 (04-89) Reporting Requirements Checklist and attach a second page showing the names and addresses of where the reports are to go.
15. (a) The Economy Act would apply if the Servicing Agency uses DOE funds for work being done by that particular agency or any contract effort supporting that agency.  
  
(b) If the Servicing Agency uses any DOE funds to support Financial Assistance Activities (Grants or Cooperative Agreements) the Initiator must provide Procurement Operations with the Statutory Authority. It is recommended that the Initiator attach the Statutory Authority as a separate Exhibit to

the IA Form.

16. through 20. shall be completed by the Project Manager/Initiator. Program personnel must keep accurate records in order to complete this section.

21. through 28. shall be completed by the Program Budget Official as the Reviewing Officials (Blocks 35 and 38 have to attest to the accuracy of the funds information.)

29. through 39. must be completed before sending to FUNTS control for certification.

40. and 41. Contract Specialist will complete these two blocks.

42. The Program Official who is the initiator is to check the appropriate box.

43. The Budget Official in the Program Office who signs in Block 37 is to complete this block.

44. through 46. These blocks are to be completed by FUNTS Control.

47. This block is to be completed by PADS processing personnel.

PART II - APPROVED BUDGET

48. A Budget by the DOE Program Manager is mandatory, and must be broken down by categories (a) through (k). The initiator may have to consult with the Servicing Agency to ensure accuracy.

49. The Initiator may have to consult with the Servicing Agency to ensure accuracy. Any property management/disposition instruction should appear here. Use a separate Exhibit if necessary.

50. The amount entered here must agree with the amount entered in item 48(f), above. All blocks must be completed if this is an affirmative response.

PART III - FUNDING METHODS AND BILLING INSTRUCTIONS

51. The Program Manager shall check the appropriate block(s) recommended and the Contract Specialist will verify the recommended method of disbursement with the Servicing Agency.

PART IV - ACCEPTANCE CONDITIONS

52. and 53. Self explanatory. Additional items may be added by attaching a separate Exhibit (beginning with the number 3) and using the letter "E" to describe the Exhibit.

PART V - OFFER AND ACCEPTANCE

54. through 57. Self explanatory.