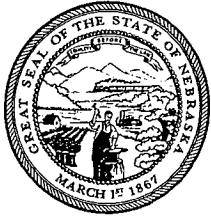


# STATE OF NEBRASKA



DEPARTMENT OF NATURAL RESOURCES  
Roger K. Patterson  
Director

March 23, 2005

IN REPLY REFER TO:

Mike Johanns  
Governor

Jack Wergin  
U.S. Bureau of Reclamation  
P.O. Box 1670  
Grand Island, NE 68802

RE: Semi-Annual Report on Agreement No. 03FC601826 for Improved Hydrologic Data Collection Systems for Drought Monitoring and Request for Reimbursement on Same Agreement

Dear Jack,

Attached is our third semi-annual report for *Agreement No. 03FC601826 Improved Hydrologic Data Collection Systems for Drought Monitoring*, and a request for reimbursement under the same agreement. I have attached a copy of a completed form 270. I have also attached copies of the bills we received and since paid. The total of bills for specific portions of the grant on which we are currently requesting reimbursement comes to the following amounts:

\$ 56,662.22	Improved Distribution of Streamflow Information Via the Internet
\$ 5,110.00	Equip DNR with Flow Measurement Equipment
\$ 13,508.00	Upgrade Gaging Equipment in Republican Basin
<hr/>	
\$ 17,835.12	Meter Cost Share for South Platte NRD
\$ 19,002.16	On-Site Computer Capabilities for Surface Water Distribution
\$ 4,589.84	Place a New Gage on the South Platte River Near Paxton
\$ 0.00	Update Drought Mitigation Plan
\$116,707.34	TOTAL

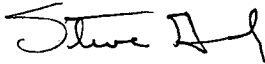
Jack, please note that there is one item in here that may or may not be eligible for reimbursement and though I have included it, I recognize you may or may not wish to provide reimbursement based upon your determination of its eligibility. That item is a \$4,000 bill for purchasing a DCS

Mr. Jack Wergin  
March 23, 2005  
Page 2

processing tool kit with an invoice date of June 15, 2004. Although that item is included in our grant application as part of the "Improved Distribution of Streamflow Information Via the Internet" category, we made the purchase prior to actual grant approval. In this instance we felt it was important enough that we could not wait, even if it meant paying for it out of our own funds. If it is not eligible for reimbursement due to its early purchase, we understand.

As noted in the progress report we have several items in process where we are likely to have additional bills eligible for reimbursement in the near future. In general, progress is further along than the billings alone would indicate.

Sincerely,



Steve Gaul  
Supervisor  
Planning and Assistance Division

Attachments

<b>REQUEST FOR ADVANCE OR REIMBURSEMENT</b>  <i>(See instructions on back)</i>		OMB APPROVAL NO. <b>0348-0004</b>		PAGE _____ OF _____ PAGES
		1. TYPE OF PAYMENT REQUESTED	a. "X" one or both boxes <input type="checkbox"/> ADVANCE <input checked="" type="checkbox"/> REIMBURSEMENT  b. "X" the applicable box <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> PARTIAL	2. BASIS OF REQUEST  <input checked="" type="checkbox"/> CASH  <input type="checkbox"/> ACCRUAL
3. FEDERAL SPONSORING AGENCY AND ORGANIZATIONAL ELEMENT TO WHICH THIS REPORT IS SUBMITTED  U.S. Bureau of Reclamation, Kansas-Nebraska Area		4. FEDERAL GRANT OR OTHER IDENTIFYING NUMBER ASSIGNED BY FEDERAL AGENCY  03FC601826		5. PARTIAL PAYMENT REQUEST NUMBER FOR THIS REQUEST
6. EMPLOYER IDENTIFICATION NUMBER  47-0491233	7. RECIPIENT'S ACCOUNT NUMBER OR IDENTIFYING NUMBER	8. PERIOD COVERED BY THIS REQUEST FROM (month, day, year) October 14, 2004		TO (month, day, year) March 22, 2005
9. RECIPIENT ORGANIZATION  Name: NE Department of Natural Resources  Number and Street: 301 Centennial Mall South, P.O. Box 94676  City, State and ZIP Code: Lincoln, NE 68509-4676		10. PAYEE (Where check is to be sent if different than item 9)  Name:  Number and Street:  City, State and ZIP Code:		

11. COMPUTATION OF AMOUNT OF REIMBURSEMENTS/ADVANCES REQUESTED				
PROGRAMS/FUNCTIONS/ACTIVITIES ►	(a) Improved Distribution of Streamflow Info via Internet	(b) Equip DNR with Flow Measurement Equipment	(c) Upgrade Gaging Equipment in Republican Basin	TOTAL (See following pages for more subprojects)
a. Total program outlays to date <i>(As of date)</i>	\$ 61,864.22	\$ 5,110.00	\$ 13,508.00	\$
b. Less: Cumulative program income				
c. Net program outlays (Line a minus line b)	61,864.22	5,110.00	13,508.00	
d. Estimated net cash outlays for advance period				
e. Total (Sum of lines c & d)	61,864.22	5,110.00	13,508.00	
f. Non-Federal share of amount on line e				
g. Federal share of amount on line e	61,864.22	5,110.00		
h. Federal payments previously requested	5,202.00			
i. Federal share now requested (Line g minus line h)	56,662.22	5,110.00	13,508.00	116,707.34
j. Advances required by month, when requested by Federal grantor agency for use in making prescheduled advances	1st month			
	2nd month			
	3rd month			

12. ALTERNATE COMPUTATION FOR ADVANCES ONLY	
a. Estimated Federal cash outlays that will be made during period covered by the advance	\$
b. Less: Estimated balance of Federal cash on hand as of beginning of advance period	
c. Amount requested (Line a minus line b)	\$

AUTHORIZED FOR LOCAL REPRODUCTION

(Continued on Reverse)

STANDARD FORM 270 (Rev. 7-97)  
Prescribed by OMB Circulars A-102 and A-110

<b>REQUEST FOR ADVANCE OR REIMBURSEMENT</b>  <i>(See instructions on back)</i>	OMB APPROVAL NO. <b>0348-0004</b>		PAGE _____ OF _____ PAGES
	1. TYPE OF PAYMENT REQUESTED	a. "X" one or both boxes <input type="checkbox"/> ADVANCE <input checked="" type="checkbox"/> REIMBURSEMENT  b. "X" the applicable box <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> PARTIAL	2. BASIS OF REQUEST  <input checked="" type="checkbox"/> CASH  <input type="checkbox"/> ACCRUAL

3. FEDERAL SPONSORING AGENCY AND ORGANIZATIONAL ELEMENT TO WHICH THIS REPORT IS SUBMITTED  U.S. Bureau of Reclamation, Kansas-Nebraska Area	4. FEDERAL GRANT OR OTHER IDENTIFYING NUMBER ASSIGNED BY FEDERAL AGENCY  03FC601826	5. PARTIAL PAYMENT REQUEST NUMBER FOR THIS REQUEST
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6. EMPLOYER IDENTIFICATION NUMBER  47-0491233	7. RECIPIENT'S ACCOUNT NUMBER OR IDENTIFYING NUMBER	8. PERIOD COVERED BY THIS REQUEST	
		FROM (month, day, year) October 14, 2004	TO (month, day, year) March 22, 2005

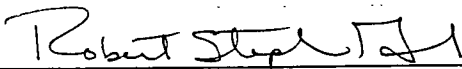
9. RECIPIENT ORGANIZATION  Name: NE Department of Natural Resources  Number and Street: 301 Centennial Mall South, P.O. Box 94676  City, State and ZIP Code: Lincoln, NE 68509-4676	10. PAYEE (Where check is to be sent if different than item 9)  Name:  Number and Street:  City, State and ZIP Code:
---	--

11. COMPUTATION OF AMOUNT OF REIMBURSEMENTS/ADVANCES REQUESTED				
PROGRAMS/FUNCTIONS/ACTIVITIES	(d) Meter Cost Share for South Platte NRD	(e) On-site Computer Capabilities for SW Distribution	(f) Place a new Gage on South Platte River near Paxton	TOTAL
a. Total program outlays to date <i>(As of date)</i>	\$ 17,835.12	\$ 19,002.16	\$ 4,589.84	\$
b. Less: Cumulative program income				
c. Net program outlays <i>(Line a minus line b)</i>	17,835.12	19,002.16	4,589.84	
d. Estimated net cash outlays for advance period				
e. Total <i>(Sum of lines c &amp; d)</i>	17,835.12	19,002.16	4,589.84	
f. Non-Federal share of amount on line e				
g. Federal share of amount on line e	17,835.12	19,002.16	4,589.84	
h. Federal payments previously requested				
i. Federal share now requested <i>(Line g minus line h)</i>	17,835.12	19,002.16	4,589.84	See previous page
j. Advances required by month, when requested by Federal grantor agency for use in making prescheduled advances	1st month			
	2nd month			
	3rd month			

12. ALTERNATE COMPUTATION FOR ADVANCES ONLY	
a. Estimated Federal cash outlays that will be made during period covered by the advance	\$
b. Less: Estimated balance of Federal cash on hand as of beginning of advance period	
c. Amount requested <i>(Line a minus line b)</i>	\$

13.

## CERTIFICATION

I certify that to the best of my knowledge and belief the data on the reverse are correct and that all outlays were made in accordance with the grant conditions or other agreement and that payment is due and has not been previously requested.	SIGNATURE OR AUTHORIZED CERTIFYING OFFICIAL 	DATE REQUEST SUBMITTED March 23, 2005
	TYPED OR PRINTED NAME AND TITLE Robert S. Gaul	TELEPHONE (AREA CODE, NUMBER, EXTENSION) 402-471-3955

This space for agency use

Public reporting burden for this collection of information is estimated to average 60 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0004), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

## INSTRUCTIONS

Please type or print legibly. Items 1, 3, 5, 9, 10, 11e, 11f, 11g, 11i, 12 and 13 are self-explanatory; specific instructions for other items are as follows:

Item	Entry	Item	Entry
2	Indicate whether request is prepared on cash or accrued expenditure basis. All requests for advances shall be prepared on a cash basis.		activity. If additional columns are needed, use as many additional forms as needed and indicate page number in space provided in upper right; however, the summary totals of all programs, functions, or activities should be shown in the "total" column on the first page.
4	Enter the Federal grant number, or other identifying number assigned by the Federal sponsoring agency. If the advance or reimbursement is for more than one grant or other agreement, insert N/A; then, show the aggregate amounts. On a separate sheet, list each grant or agreement number and the Federal share of outlays made against the grant or agreement.	11a	Enter in "as of date," the month, day, and year of the ending of the accounting period to which this amount applies. Enter program outlays to date (net of refunds, rebates, and discounts), in the appropriate columns. For requests prepared on a cash basis, outlays are the sum of actual cash disbursements for goods and services, the amount of indirect expenses charged, the value of in-kind contributions applied, and the amount of cash advances and payments made to subcontractors and subrecipients. For requests prepared on an accrued expenditure basis, outlays are the sum of the actual cash disbursements, the amount of indirect expenses incurred, and the net increase (or decrease) in the amounts owed by the recipient for goods and other property received and for services performed by employees, contracts, subgrantees and other payees.
6	Enter the employer identification number assigned by the U.S. Internal Revenue Service, or the FICE (institution) code if requested by the Federal agency.	11b	Enter the cumulative cash income received to date, if requests are prepared on a cash basis. For requests prepared on an accrued expenditure basis, enter the cumulative income earned to date. Under either basis, enter only the amount applicable to program income that was required to be used for the project or program by the terms of the grant or other agreement.
7	This space is reserved for an account number or other identifying number that may be assigned by the recipient.	11d	Only when making requests for advance payments, enter the total estimated amount of cash outlays that will be made during the period covered by the advance.
8	Enter the month, day, and year for the beginning and ending of the period covered in this request. If the request is for an advance or for both an advance and reimbursement, show the period that the advance will cover. If the request is for reimbursement, show the period for which the reimbursement is requested.	13	Complete the certification before submitting this request.
Note:	The Federal sponsoring agencies have the option of requiring recipients to complete items 11 or 12, but not both. Item 12 should be used when only a minimum amount of information is needed to make an advance and outlay information contained in item 11 can be obtained in a timely manner from other reports.		
11	The purpose of the vertical columns (a), (b), and (c) is to provide space for separate cost breakdowns when a project has been planned and budgeted by program, function, or		

**Expenditures to Date on Agreement 03 FC 601826**  
**Improved Hydrologic Data Collection Systems for Drought Monitoring**  
**3/22/05**

<u>Item</u>	<u>Spent This Period</u>	<u>Spent To Date</u>	<u>Budgeted</u>	<u>Completed</u>
Assistance to Republican Irrigation Districts	0	\$151,500.00	\$151,500.00	Yes
Lake McConaughy Water Set Aside	0	47,310.59	50,000.00	Yes
Improved Distribution of Streamflow Information via Internet	56,662.22	61,864.22	113,500.00	No
Upgrade six Big Blue Gaging Stations	47,322.72	47,322.72	86,500.00	No
Two Platte gages to DCPs (CR Fullerton Loup Power Ret), six Ord Gages, and four Norfolk Gages to DCPs				
Purchase DCS Processing Tool Kit with Install/Training	4,000.00*	4,000.00	(6,500)	Yes
Hydrological Data Manager Administrative Package	0	5,202.00	(6,000)	Yes
Sewer to House Hydro Manager Software and Data	5,339.50	5,339.50	(6,000)	Yes
Consulting Contract on Web Page Upgrade and Data Collection	0	0	(8,500)	No
Equip DNR with Flow Measurement Equipment	5,110.00	5,110.00	16,500	No
2 Ultrasonic Open Channel Flow Meters	0	0	(9,000)	No

<i>1 Doppler Meter for Lincoln Field Office</i>	0	0	(1,150)	No
<i>3 Aqua-Calcs</i>	5,110.00	5,110.00	(6,350)	Yes
<b>Upgrade Gaging Equipment in Republican Basin</b>	<b>13,508.00</b>	<b>13,508.00</b>	<b>17,000.00</b>	
<i>5 Satellite Links</i>	13,310.00	13,310.00	(13,500)	Yes
<i>Walking Bridge at Cambridge</i>	198.00	198.00	(2,500)	No
<i>Ladder at Medicine Creek</i>	0	0	(1,000)	No
<b>Meter Cost-Share for South Platte NRD</b>	<b>17,835.12</b>	<b>17,835.12</b>	<b>100,000</b>	<b>No</b>
<b>On-Site Computer Capabilities for Surface Water Distribution (14 systems)</b>	<b>19,002.16</b>	<b>19,002.16</b>	<b>37,000</b>	<b>No</b>
<b>Place a New Gage on South Platte River near Paxton</b>	<b>4,589.84</b>	<b>4,589.84</b>	<b>15,000</b>	<b>No</b>
<b>Update Drought Mitigation Plan</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>No</b>
<b>TOTAL</b>	<b>\$116,707.34</b>	<b>\$320,719.93</b>	<b>\$525,500</b>	<b>No</b>

**Partial Preliminary Draft**  
**Semi-Annual Program Performance Report Agreement 03FC601826**  
**Improved Hydrologic Data Collection Systems for Drought Monitoring**  
**March 22, 2005**

**A) A Comparison of Actual Accomplishments with the Goals and Objectives Reported for the Reporting Period**

Goals for this project were established for the term of the project rather than for the reporting period. Nonetheless, progress appeared satisfactory for the period. A summary of project progress and remaining activity in each work area of the grant follows:

**Assistance for Republican Irrigation Districts**

*This work was completed and reported in a prior progress report and has already been paid (\$151,500)*

**Lake McConaughy Water Set Aside**

*This work was completed and reported in a prior progress report and has already been paid (\$47,310.59). The original grant amount for this sub-item was \$50,000.*

**Improved Distribution of Streamflow Information Via the Internet**

*Total Grant Amount: 113,500      Total Grant Expenditures to Date: \$61,864.22*

**Subitems**

**Upgrade to DCPs for Big Blue, Platte, Ord Office and Norfolk Office Gaging Stations**

A total of \$86,500 was budgeted for these items and requests for reimbursement of \$55,954.90 of that amount are included in the request accompanying this report. However the remaining equipment has almost all been ordered and we expect to have the equipment and bills on that material within the next month.

**Purchase DCS Processing Toolkit.**

This item is discussed in the forwarding letter to this report. It was budgeted at \$6,500 and \$4,000 was spent on it in June of 2004. However, the grant that included this purchase had not been approved at the time we made the purchase. For timing reasons we believed we needed to go ahead, even if that meant funding the item out of state funds instead. Although that \$4,000 is included in this progress report and in the related reimbursement request, it may not be eligible because of the timing of the purchase.

**Hydrological Data Manager Administrative Package**

This item was completed and mentioned in the last semi-annual report and billed at that time at a cost of \$5,202 out of the originally anticipated \$6,000.

**Server to House Hydro Manager Software and Data**

This Item has been purchased and a request for reimbursement of \$5,339.50 out of the originally budgeted \$6,000 is included with this report.



#### Consulting Contract on Webpage Upgrade and Data Collection

This item is budgeted at \$8,000 and is an item on which we may have some difficulty acting as quickly as we had initially hoped. With the the new WISKI stream gaging software adopted as part of the program and the beginnings of installing DCPs there have been challenges in how we process our stream gaging data. In meeting those challenges the web upgrade has been postponed until those other items can be addressed. Nonetheless, we are still likely to seek some outside assistance in webpage upgrade and this funding may well need to be used, albeit as one of the last items completed and billed.

#### **Equip DNR with Flow Measurement Equipment**

DNR has completed purchase of three Aqua-Calcs at a cost of \$5,110 out of an originally budgeted \$6,350. The billings for those are included in the accompanying request for reimbursement. We are in the process of acquiring two ultrasonic open channel flow meters (budgeted cost \$9,000) and a dopler meter (budgeted cost \$1,150) neither of those have been ordered yet and they are not included in this billing. We expect those purchases to be made in the near term future.

#### **Upgrade Gaging Equipment in Republican Basin**

Five satellite links have been purchased at a cost of \$13,310 out of an originally budgeted cost of \$13,500. A request for reimbursement is included with this order. To date \$198 out of a budgeted \$2,500 has been spent on a walking bridge at the Cambridge gage out of a budgeted \$2,500. Expenditures on that project are not yet complete, but a request for reimbursement of the \$198 is included in this mailing. No expenditures have yet been made out of a budgeted \$1,000 on a ladder at Medicine Creek. In each case we expect the expenditures to be made over the next several months.

#### **Meter Cost Share for South Platte NRD**

Conversations with the South Platte NRD in early March indicated that about \$72,000 of the budgeted \$100,000 had been committed. However, we have not yet received the billings for most of that yet. A request for reimbursement of \$17,835.12 accompanies this report and 31 meters have been installed. We anticipate receiving billings on this and ~~having a further request for reimbursement in the near term future. Instead of individual~~ invoices, on this item I have included our summary sheet that indicates who received each payment and how much they received. It is expected that the budgeted funding will be fully expended in a timely manner.

#### **On-Site Computer Capabilities for Surface Water Distribution**

Most, but not all of these purchases have been made and billings totaling \$19,096.84 out of the \$37,000 budgeted are included with this mailing along with a request for reimbursement. It is expected that the remaining purchases will be made in the fairly near term.

### **Place a New Gage on the South Platte River Near Paxton**

Some of the material to construct this gage has been ordered and a request for reimbursement of \$4,589.84 accompanies this report.

### **Update Drought Mitigation Plan**

The final signature on a memorandum of agreement with the University of Nebraska Board of Regents and National Drought Mitigation Center was made on February 15, 2005 and University work on the project can now occur. As we receive billings from the University, we will in turn request reimbursement from the Bureau of Reclamation. The University is required to complete all analyses by January 1, 2006 and provide a copy of suggested updates to the Plan by January 31, 2006. This portion of the project is likely to be the final item completed from among work items authorized in September 2004.

### **B) Where Project Output Can Be Quantified, a Compilation of the Cost Per Unit of Output**

This project does not have cost per unit of output per se. In a number of instances the final cost of purchased items did fall below the originally estimated cost. These include:

<u>Item</u>	<u>Orig Est</u>	<u>Final Cost</u>
Lake McConaughy Water Set Aside	\$ 50,000	\$47,310.59
Purchase DCS Processing Toolkit	\$ 6,500	\$ 4,000.00
Server for Hydro Manager Software and Data	\$ 6,000	\$ 5,339.50
3 Aqua Calcs	\$ 6,350	\$ 5,110.00
5 Satellite Links (Upgrade Rep Basin Equip)	\$ 13,500	\$13,310.00

Although we do not yet have the final total costs per meter for the project on meter cost share for the South Platte NRD, it is expected that it will be a significantly higher cost per meter than the \$480 originally anticipated, with an early average running around \$575 per meter in that NRD and an average now expected of around \$550. Maximum cost share has been set at \$600 per meter.

---

### **C) Where Appropriate, Reasons Why Goals and Objectives Were Not Met**

Items anticipated to be complete by this time have been completed. The items likely to be completed last appear to be: 1) the consulting contract on webpage upgrade and data collection, and 2) the update of the Drought Mitigation Plan (where a final product is not anticipated until the end of January 2006).

### **D) Other Pertinent Data**

Please see the attachments.

**AGREEMENT 03FC601826 IMPROVED HYDROLOGIC DATA COLLECTION SYSTEMS FOR DROUGHT MONITORING – BILLING AMOUNTS APPLICABLE TO MARCH 22, 2005 SEMI-ANNUAL REPORT AND REQUEST FOR REIMBURSEMENT - 3/22/05**

*Assistance for Republican Irrigation Districts*

-

Lake McConaughy Water Set-Aside

-

Improved Distribution of Streamflow Information Via the Internet

Upgrade DCPs for Big Blue, Platte, Ord Office and Norfolk Office Gages

\$ 757.28

\$ 77.20

\$ 1,755.99

\$ 3,511.98

\$27,662.76

\$ 5,235.29

\$ 8,322.22

\$47,322.72 Total

Purchase DCS Processing Toolkit With Install/Training

\$4,000

Server to Hydro-Manager Software and Data

\$5,339.50

Equip DNR with Flow Measurement Equipment

3 Aqua Calcs

\$5,110.00

---

Upgrade Gaging Equipment in Republican Basin

5 Satellite Links

\$13,310.00

Walking Bridge at Cambridge

\$198.00

Meter Cost Share for the South Platte NRD

\$17,835.12

**Place a Gage on the South Platte River Near Paxton**

\$4,285.00  
\$ 51.09  
\$ 253.75  
\$4,589.84 Total

**On-Site Computer Capabilities for Surface Water Distribution**

\$16,645.07  
\$ 81.75  
\$ 336.24  
\$ 339.99  
\$ 558.00  
\$ 397.67  
\$ 147.45  
\$ 495.99  
\$19,002.16 Total

**\$116,707.34 Overall Total**

**DEPARTMENT OF  
NATURAL RESOURCES**

DATE 12-8-04

ROUTE SLIP:

TO: Steve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FROM  
 Director  
 Deputy Director  
 Mary K  
 \_\_\_\_\_  
 \_\_\_\_\_

**ACTION TO BE TAKEN**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> For Your Information | <input type="checkbox"/> Prepare Reply for _____        |
| <input type="checkbox"/> Comments/Suggestions            | <input type="checkbox"/> Prepare Reply Direct to Writer |
| <input type="checkbox"/> Discuss With Me                 | <input type="checkbox"/> Prepare Reply for My Signature |
| <input type="checkbox"/> File                            | <input type="checkbox"/> As Requested                   |
| <input type="checkbox"/> Review/Revise & Return          | <input type="checkbox"/> Per Our Conversation           |
| <input type="checkbox"/> Please Handle                   | <input type="checkbox"/> Circulate                      |
| <input type="checkbox"/> Signature/Return                | <input type="checkbox"/> Draft/Final                    |

REMARKS:

Steve  
Copy of invoice  
that needs to go to  
USBR for reimbursement.  
\_\_\_\_\_  
Thanks!  
MK