From: $\quad$ "Alfred F \"Bobl" Blair, Jr" [afblair@internet8.net](mailto:afblair@internet8.net) on 06/28/2008 08:10:04 AM
Subject: Regulation AA

Jun 28, 2008
Federal Reserve Board Email comments
Dear Email comments,
No Truth In Lending
A F "Bob" Blair Jr
Thibodaux LA 70301-6193
Phone/Fax: 985 447-7744
1136 Highway 1
afblair@internet8.net
June 28, 2008
Response to AAPR's request for improvement in Legislation on Credit Cards.
The "Truth in Lending Act" passed in 1968 did not incorporate
the mathematically-true annual percentage rate, because the true
calculation used compounding (sometime fraction compounding), which was not readily available. The result on expression of the APR on credit cards uses a Nominal (simple interest) method ... which can far from the truth. The Truth in Lending Act should be changed to the mathematically-true (EFFECTIVE) APR from the untrue (NOMINAL) APR, merely by changing the word in act from "multiplied by" to "compounded for".
Reading the conditions on the back of a credit card statement, the interest (if any) is compounded daily, yet the APR is expressed as the multiplied (Nominal) APR. Because a new daily balance is the results of the sum of the daily compoundings and Compounded interest has been charged for the month ... there is DOUBLE COMPOUNDING, which can amount to a mathematically-true APR of $80 \%$ as per the attached spreadsheet.
Credit Card Interest - NOMINAL \& EFFECTIVE APR on a Balance of \$1
afblair@internet8.net Last Rev: 5-21-08
" Methods of Calculations:
Nominal APR: The rate for a payment period multiplied by the number of payment periods in a year.
Effective APR: The rate for a payment period compounded for the number of payment payments in a year.

Calculation of the Maximum Percentage Rate which, would accrue if there were a balance on the first day of the billing period.
Beginning Date on Credit Card Statement
B Stated on
Billing 3/18/2008
Ending Date on Credit Card Statement
E Stated on
Billing 4/18/2008

Nominal APR, shown on the Credit Card's Statement NAPR Stated on
Billing 29.990\%
Days in the Year forward, after 2-29-2008, before
2-27-2011 Y
365
Daily Periodic Rate, the nominal daily interest rate method (sometimes
stated)) i

NAPR/Y 0.082164\%
Days in a Monthly Payment Period (Maximum probably

## 31) 31

Total of Daily Compounded Balances with formulas:
$\left(\left((\mathrm{H} 8+1)^{\wedge}(\mathrm{H} 9+1)\right)-(\mathrm{H} 8+1)\right) / \mathrm{H}$
T $\quad\left(\left((i+1)^{\wedge}(d+1)\right)-(i+1)\right) / i \quad 31.4109038703$
Average Daily Balance [Monthly] of Compounded Balances for
"d" days: H10/H9 =
1.0132549636

Monthly Interest Rate using Daily Periodic
Rate
NAPR*d/Y $\quad 2.5470958904 \%$
Total Finance Charge [Monthly] Multiply the Average Daily Balance by
the Daily Periodic Rate, then multiply by the number of days in the
billing period
A*i*d 2.5808575536\%
Final Nominal APR, if the New Balance in not carried
forward
T*D/d 30.387516357\%
Mathematically-True, Effective
APR
FEAPR
((1+T)^(D/d))-1 34.988588616\%
The Truth in Lending Law allows an accuracy variance of 1/8 (.125\%) of a percent from the accurate Nominal APR on Credit Cards, Closed End Loan.
Amount of $1 / 8$ of a percent difference in the stated NAPR the Modified NAPR
(FNAPR-NAPR)/.125\% 3
Amount of $1 / 8$ of a percent difference in the stated NAPR and EAPR
(FEAPR-NAPR)/.125\% 40
Perform a month's daily compounding day by day for a check of
"T" at H10
Day \# Balance at the beginning of the day Interest for the day
Balance
at the end of the day If the increase in the original balance (C53) is carried over to the next billing cycle (which is likely), then the
calculations changes



Sincerely,
Mr. Alfred F "Bob" Blair, Jr
1138 Highway 1
Thibodaux, LA 70301-6193

