



# Meter Reading Verification Tests

*Harris Computer Systems*

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The Meter Reading > Meter Reading Entry Verification report prints a list of all meters that fail any of the tests you specify on the filter screen. No report is generated if no meters match any of the test criteria. See Fig 1

Fig 1

**NOTE:** If you have the “mrrevdef”: see Fig 2) key value set, these choices will be defaulted. They can be manually changed if required for only one cycle, or the key value can be updated with new settings if the new requirements are permanent.

Fig 2

### Meter Reading Tests Failed

1. *Non Variance Errors* – Pulls anything that appears to be normal consumption.
2. *Variance Errors* – Pulls anything where the read consumption differs from the computer estimate, by the % specified in the *Setups > Setups > Standard >Control Table Setups > Main> Variance Percentage > Reading Entry* : see Fig 3.  
 ie: If the estimated read is 750 kwh, and the actual read is 30% <> 750, it will show a variance error.

Fig 3

The screenshot shows a software window titled "Control Table (BROWSE)" with a menu bar containing "Main", "Deposit/Discount/Water", "Refunds/Overdue", "Name/Address", and "Credit/Letter". The window is divided into several sections:

- General Information:**
  - Installation number: 69
  - Final advance occupant:
- Policy:**
  - Cash policy: 2
- Billing Information:**
  - Use credit billing:
  - Prorate any bill: N
  - Prorate first / final bill: 3
  - Prorate minimum bills:
  - Prorate demand bills:
  - Peak calculation: 1
  - Due date range: 16 to 21
- Refund Information:**
  - Budget refund (low): 0.00
  - Budget refund (high): 0.00
  - Default area code: 905
  - Final pending minimum days: 10
  - First bill minimum days: 9
- G / L Properties:**
  - G / L version: 5.99
  - Aged receivable - Block 1: 45
  - Block 2: 90
  - Block 3: 180
- Variance Percentage:**
  - Reading entry: 40.00
  - Credit billing: 600.00
  - Possible credit bills: 350.00
  - Bill journal (\$) total %: 50.00

The status bar at the bottom left shows "Ready".

3. *Rollover* – Pulls anything that appears to be a meter rollover.
4. *Credit Bills* – Pulls anything where the current reading is lower than the previous reading and matches all of the credit billing tests ie:
  - a. Current Reading is lower than the previous reading and meets credit billing criteria test set in *Control Table Setups > Credit/Letter*.
  - b. calculated by the actual read, differs from the estimated read by the % entered in the *Control Table Setup* under either *Credit Billing %* or *Possible credit bills %*. See Fig 3
5. *Skipped Readings* – Pulls anything where no reading has been obtained and updated in the reading entry table.
6. *Inactive with Usage* – Pulls anything where the current consumption is greater than zero and the meter or service was inactive at the time of reading.
7. *High Usage* – Pulls anything where consumption greater than normal as compared to High Consumption setting in the Category setup. See Figure 4. In the example below for Residential customers, if consumption > 2000kwh from April to September, or > 2500 other months, it will be flagged as having high usage. *Setups > Standard > Category Codes* See Fig 4.

Fig 4

**Category Codes Setup**

Category code: ER  
 Description: ELECTRIC RESIDENTIAL  
 Service Type: E ELECTRIC  
 High consumption check: January to September  
 In range: 2000 Other months: 2500  
 Penalty / discount %:  
 Flat amount:

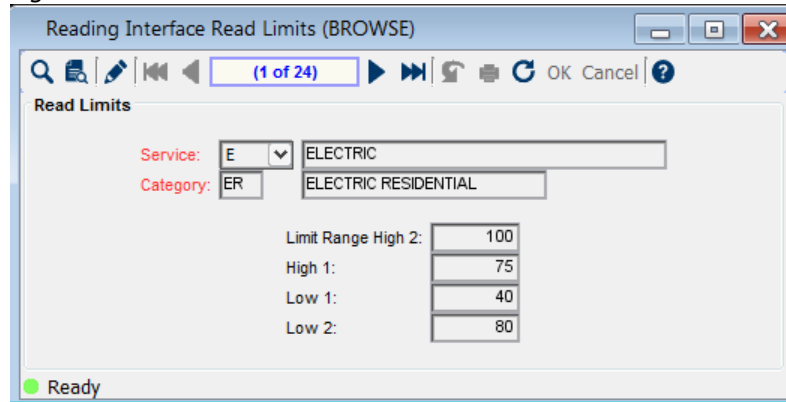
**Estimating Factors**

	Less than Year:	Year and Greater:
January:	5.00	5.00
February:		
March:		
April:		
May:		
June:		
July:		
August:	30.00	30.00
September:	30.00	30.00
October:		
November:		
December:		

Ready

- a. *High Consumption Check* – Select the desired month range for high consumption period.  
Example: January to September.
  - b. *In Range* - Utility defined high consumption as a *High Consumption*.
  - c. *Other Months* - Utility defined high consumption value for months other than those entered in *High Consumption Check*.
  - d. *Estimating Factors* – Allows user to estimate based on averaged past consumption. If consumption period differs from the previous year, the user can alter the % factor in the *Estimating Factors* section.  
Example: If a winter is colder than the previous winter, the user might enter +5% in the January text field, adding 5% to the estimation for that month.
  - e. *Less than Year* – Enter percentage to alter estimates for months on an account which is less than one year old.
  - f. *Year & Greater* – Enter a percentage to alter estimates for months on an account that is one year old or greater.
8. *Non Zero Check Meters* - This pertains to a particular check meter set up. Check on the sum of the usage for all deduct meters against master meter's usage.

Fig 5.



### *Reading Limits High/Low Checks Calculation*

Refer to Knowledge Base article:

*Meter Reading > Reading Entry Verification > High/Low Limits*

9. *High1/Low1 Estimate* – Accounts whose current consumptions are outside the Hi1/Lo1 reading range passed down to the handhelds in the import file. These are the ranges set up in the Reading Interface Read Limits (see Fig 5). The estimates are based on a year of history. This is for comparing current and historical consumption at the exact moment readings are recorded.
10. *High2/Low2 Estimate* – Same theory as High1/Low1 Estimate.
11. *Zero Usage* – Any account with a current consumption of zero, based on the current reading.
12. *Invalid Meter* – Indicates that a meter change occurred between the time of the import and export.
13. *Estimates Failure* – Estimated read cannot be produced (i.e. no Hi/Lo reading range is passed down in the import file).
14. *Final Pending Account* – This test works in conjunction with the number of days set in the Final Pending Min Days field in Setups > Setups > Standard > Control Table Setups > Main. If, for example, the field is set to 10, then this test pulls those customers due to be final billed within 10 days of the current reading date.