

DEPARTMENT OF EDUCATION-FSA
FMS INTEGRATION PARTNER
FORM FUNCTIONAL DESIGN



FORM 2000 EDITS ENHANCEMENT
TO 130 – Form 2000 Enhancements

Author: Laura Stein
Creation Date: March 12, 2003
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Subject: Form 2000 Edits Form Functional Design
TO 130 – Form 2000 Enhancements
Version: 1.0

Prepared by: Laura Stein	Date: March 12, 2003
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Document Change Control

Date	Author	Version	Change Reference
3-12-03	Laura Stein	1.0	Initial Creation
4-9-03	Laura Stein	1.1	Changed Federal Receivable edits to have 2% tolerance

Approval

Created By:	Laura Stein	202-962-0657	Creation Date: 03/12/2003
Team Lead Sign Off:	Joanna Zieba	202-962-0718	Sign Off Date: 04/11/2003
Project Lead Sign Off:	Jen Alden	202-962-0682	Sign Off Date: 04/15/2003
FSA Representative Sign Off:	Matt Fontana	202-377-3005	Sign Off Date:



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Specification

Program Name:	Form 2000 Edits Enhancement
Functional Design Document ID & Title:	FORM2000_EDITS_FORM_FD
Application:	Form 2000 Monthly Form 2000 Quarterly (Monthly/Quarterly Form) Form 2000 Annual
Priority:	High
Estimated Production Date:	July 2003
Other Affected Applications:	None
Comments:	



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General Requirements

Business Objective:

As part of TO 130, a number of hard and soft edits will be added to the Form 2000 Monthly, Quarterly and Annual forms. Currently the FSA Financial Partners (FP) perform these calculations manually. The purpose of this enhancement is to build these hard and soft edits into the Form 2000 functionality to warn and/or stop the user. The Hard Edits will warn the user but allow them to Save when violated, but will NOT allow the user to Submit the form. The Soft Edits will warn the user when the rule is violated but will allow the user to both Save and Submit/Accept the form. The Soft Edits will fire on the Save button for all users, the Submit button for GA users and the Accept button for FP users.

The objective of the Form 2000 Edits enhancement is to build automated validation into the forms so that a number of violations and errors are captured and fixed before the forms are ever submitted to the FPs. This should greatly reduce the amount of time that the FPs spend checking for these violations and should hopefully reduce the number of reports that have to be rejected.

Additionally, one of the existing reasonability checks within the Form 2000 Monthly form will be removed. There is currently a reasonability check on fields MR-1 through MR-23 to ensure the entered amounts are + or -5% of the corresponding amount for the same month of the previous year. The FP users no longer want this check to be performed so this logic will be modified to remove this edit.

Component Description:

To fulfill the Business Objective, the Hard and Soft Edits will be built into Form 2000 functionality for the Monthly, Quarterly and Annual forms. The edits will be built into trigger code on the Save, Submit and Accept actions in the form. The soft and hard edits built into the Save action on the forms will be programmed to display a Warning message but will let the user proceed with saving if the user wishes. The hard edits built into the Submit button will be programmed to display an Error message and will not let the user go any further with submission until the error is fixed. The soft edits built into the Submit and Accept buttons will be programmed to display a Warning message but will let the user proceed with submitting the form if the user wishes.

The following is a list of the Hard and Soft Edits that will be incorporated into the Form 2000 screens:

Monthly Report Edits

1. **MR-1, Claims Paid** – If Default Claims, Principal Amount (MR-1-A) is greater than zero, then Default Claims, Principal Amount, (MR-1-A) must be less than or equal to 95 percent of Default Claims, Other Amount (MR-1-A), otherwise reject the submission. Hard Edit.
2. **MR-10, Rehabilitated Loan Refund** - If Rehabilitated Loan Refund, Principal Amount (MR-10) is greater than zero, then divide (MR-10 Principle divided by 0.815) by MR10-A Principal. The result should be less than or equal to 18.50%. If the result is greater than 18.50%, display warning. Soft Edit.
3. **MR-11, FFEL Consolidation Refund** - If FFEL Consolidation Refund, Principal Amount (MR-11) is greater than zero, sum MR-11-A (Principal Amount) plus MR-11-A (Interest Amount) then divide MR-11-B (Other Amount) by sum of MR-11-A (Principal and Interest Amounts). If result is greater than 18.5%, reject submission. Hard Edit.
4. **MR-12, GA Administrative Wage Garnishment** – If the sum of GA Administrative Wage Garnishment (MR-12 Principal, Interest and Other Amounts) is greater than zero, then the Sum MR-12-A (Administrative Wage Garnishment–Total Collected) Principal, Interest and Other Amounts must be greater than zero, otherwise reject the submission. Hard Edit.
5. **MR-12, GA Administrative Wage Garnishment** – If the sum of GA Administrative Wage Garnishment (MR-12 Principal, Interest and Other Amounts) is greater than zero, then the Sum MR-12-B (Administrative Wage



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Garnishment–GA Retention) Principal, Interest and Other Amounts must be greater than zero, otherwise reject the submission. Hard Edit.

6. **MR-12, GA Administrative Wage Garnishment** - If the sum of GA Administrative Wage Garnishment (MR-12 Principal, Interest and Other Amounts) is greater than zero, Sum MR-12-B (Administrative Wage Garnishment-GA Retention) Principal, Interest and Other Amounts and divide by Sum of MR-12-A (Administrative Wage Garnishment–GA Total Collected) Principal, Interest and Other Amounts. If calculated amount exceeds 25% reject the submission. Hard Edit.
7. **MR-13, Default Collections** – If the sum of Default Collections (MR-13 Principal, Interest and Other Amounts) is greater than zero, then the Sum MR-13-A (Default Collections–Total Collected) Principal, Interest and Other Amounts must be greater than zero, otherwise reject the submission. Hard Edit.
8. **MR-13, Default Collections** – If the sum of Default Collections (MR-13 Principal, Interest and Other Amounts) is greater than zero, then the Sum MR-13-B (Administrative Wage Garnishment–GA Retention) Principal, Interest and Other Amounts must be greater than zero, otherwise reject the submission. Hard Edit.
9. **MR-13, Default Collections** - If the sum of Default Collections (MR-13 Principal, Interest and Other Amounts) is greater than zero, Sum MR-13-B (Default Collections–GA Retention) Principal, Interest and Other Amounts and divide by Sum of MR-13-A (Default Collections–Total Collected) Principal, Interest and Other Amounts. If calculated amount exceeds 25% reject the submission. Hard Edit.

Quarterly Report Edits (Monthly/Quarterly Form)

10. **Federal Receivable Edit** – The corresponding Monthly form must already be Accepted before the Monthly/Quarterly form can be submitted for that GA. If the Monthly form for that GA does not have a status of ‘Accepted’ then reject the submission. Hard Edit.
11. **Federal Receivable Edit** – If the calculated value of the sum of MR33-MR40 Principal Amounts is not within +/- 2% of the value of MR32 Principal Amount, reject the submission. When this calculation is performed, it is assumed that the corresponding monthly report has already been submitted. Hard Edit.
12. **Federal Receivable Edit** – If the calculated value of the sum of MR33-MR40 Interest Amounts is not within +/- 2% of the value of MR32 Interest Amount, reject the submission. When this calculation is performed, it is assumed that the corresponding monthly report has already been submitted. Hard Edit.
13. **Federal Receivable Edit** – If the calculated value of the sum of MR33-MR40 Principal Amounts (current period) is not within +/- 2% of the value of the sum of MR32 Principal Amount (previous period – see Assumptions) plus the detail information Principal Amounts from the current period, reject the submission. When this calculation is performed, it is assumed that the corresponding monthly report has already been submitted. Please see Detailed Description for full calculation. Soft Edit.
14. **Federal Receivable Edit** – If the calculated value of the sum of MR33-MR40 Interest Amounts (current period) is not within +/- 2% of the value of the sum of MR32 Interest Amount (previous period – see Assumptions) plus the detail information Interest Amounts from the current period, reject the submission. When this calculation is performed, it is assumed that the corresponding monthly report has already been submitted. Please see Detailed Description for full calculation. Soft Edit.
15. **MR-31, Other Transactions Affecting Federal Receivables** – If MR-31, Principal, Interest, or Other Amounts is greater than zero GA must enter a comment in the ‘GA Comment’ section of the Monthly/Quarterly Form 2000. Hard Edit.

Annual Report Edits

16. **AR-17, Reinsurance from ED** – AR-17, Reinsurance From ED should be less than AR-21 Claims Expensed to Lenders for the same period. Soft Edit.
17. **AR-26/15, Ending/Beginning Balance** - AR-26 Ending Balance of Previous FY should be the Beginning Balance for AR-15 Current FY in the Federal Fund. (Note: AR-26 is a system-calculated field). AR-26 from the Previous FY will come from the most current amended Annual Form 2000 version. For example, if the Annual



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Form 2000 has an original version and 2 amendments, the value used in this edit will come from the second Amendment. Soft Edit.

18. **AR-17, Reinsurance from ED** – AR-17, Reinsurance From ED should equal the sum of monthly reporting (October through September) for the corresponding fiscal year for the following data elements:

- +MR-1, Claims Paid, Principal Amount
- MR-5, Repurchases-CFY, Principal Amount
- MR-6, Repurchases-PFY, Principal Amount
- MR-7, Partial Refunds-CFY, Principal Amount
- MR-8 Partial Refunds-PFY, Principal Amount
- MR-9 Overstated Claims, Principal Amount

Soft Edit.

19. **AR-40/29, Ending/Beginning Balance** – AR-40, Ending Balance of Previous FY should equal AR-29, Beginning Balance for Current FY. AR-40 from the Previous FY will come from the most current amended Annual Form 2000 version. For example, if the Annual Form 2000 has an original version and 2 amendments, the value used in this edit will come from the second Amendment. Soft Edit.
20. **AR-37, Collections of Defaulted Loans** – AR-37, Collections of Defaulted Loans (Secretary’s Share) must be greater than 70% of the sum of AR-18, Collections on Defaulted Loans-Reinsurance Complement plus AR-34, Collections Less Reinsurance Complement. Soft Edit.
21. **AR-37, Collections of Defaulted Loans** - AR-37, Collections on Defaulted Loans (Secretary’s Share) should equal the sum of monthly reporting (October through September) for line items MR-10 Rehabilitated Loan Refund, MR-11, FFEL Consolidation Refund, MR-12, Administrative Wage Garnishment, MR-13, Default Collections, and MR-14, Bankruptcy Collections for Principal, Interest, and Other Amounts.

Reasonability Check - The logic that performs the reasonability check for fields MR-1 through MR-23 to ensure the entered amounts are + or -5% of the corresponding amount for the same month of the previous year will be commented out of the Form 2000 Monthly form code. This check will no longer fire when the user tries to submit the form. However, existing logic to check if the fields are not equal to zero will remain unchanged.

Component Risks:

1. Potential performance issues with form level triggers. Due to the high number of edits that will be performed upon Saving, Submitting or Accepting the report, performance could become an issue. The edits may cause a time delay in how quickly the Save/Submit/Accept buttons respond.
2. A business process change for Quarterly submissions is scheduled to take place by June 2003. All GAs will submit Quarterly forms on a Monthly basis once the process change is in place. There is a potential risk if the business process for Quarterly submissions is not changed by June 2003. There could be some associated risk with missed edits if the user files the Quarterly form Quarterly instead of Monthly.

Development Complexity:

High

Assumptions:

- A Hard Edit is defined as a warning message that appears when the GA user attempts to save or submit a Form violating specified calculation conditions.
- Saving a Form that violates a Hard Edit will be allowed; Submitting a Form that violates a Hard Edit will be prevented.
- All Monthly Form 2000 edits are to be Hard Edits, except MR-10 Rehabilitated Loan Refund.
- A Soft Edit (Warning) is defined as a warning message that appears when the GA user attempts to save or submit or the FP user attempts to save or accept a Form violating specified calculation conditions.
- Saving a Form that violates a Soft Edit will be allowed; Submitting a Form that violates a Soft Edit will be allowed; Accepting a Form that violates a Soft Edit will be allowed.
- All Annual Form 2000 edits are to be Soft Edits.
- The Quarterly Edits will be on the Monthly/Quarterly Form.



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- The corresponding Monthly report must already be submitted for the Monthly/Quarterly Form Edits to work.
- In the Quarterly Edits, current month data will be compared to previous month data only, regardless of whether or not those months are in separate quarters. EX: "Period 1" = Sep, "Period 2" = Oct.
- The Federal Receivable Principal Calculation will not include Agency Accruals, MR26_P, as this field does not exist. The Federal Receivable Interest Calculation will include Agency Accruals, MR26_I.
- The GAs will change their process to submit Quarterly forms on a Monthly basis by June 2003.
- Annual Form 2000 edits using Previous FY values will use the most updated version in the case of amendments. For example, if an Annual Form 2000 is saved and has two amendments, values from Amendment Version Number 2 will be used in the Annual edits.
- Error messages (Hard Edits on Submit) will fire one at a time. If a hard edit is violated upon submitting, an Error message will appear. The user will have to fix that error before proceeding to any other possible error messages.
- New Warning messages (Soft or Hard Edits on Save, Soft Edits on Submit and Accept) will fire one at a time. If a soft edit is violated upon saving, submitting or accepting, a Warning message will appear. The user will be able to choose Cancel to go back and fix the problem, or Ok to continue with the error as-is.
- Existing soft edits, with the exception of the MR1-MR23 reasonability checks, will not be modified at all.
- Existing code to check if fields MR1-MR23 have non-zero amounts will remain unchanged.
- Negative Number enhancement has no effect on edit calculations.



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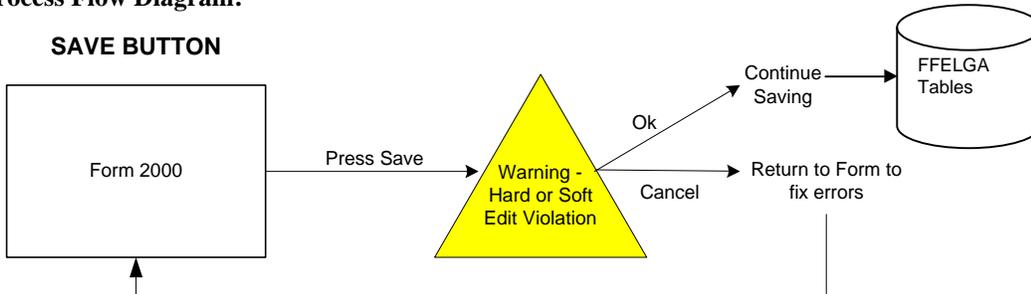
Date:
March 12, 2003

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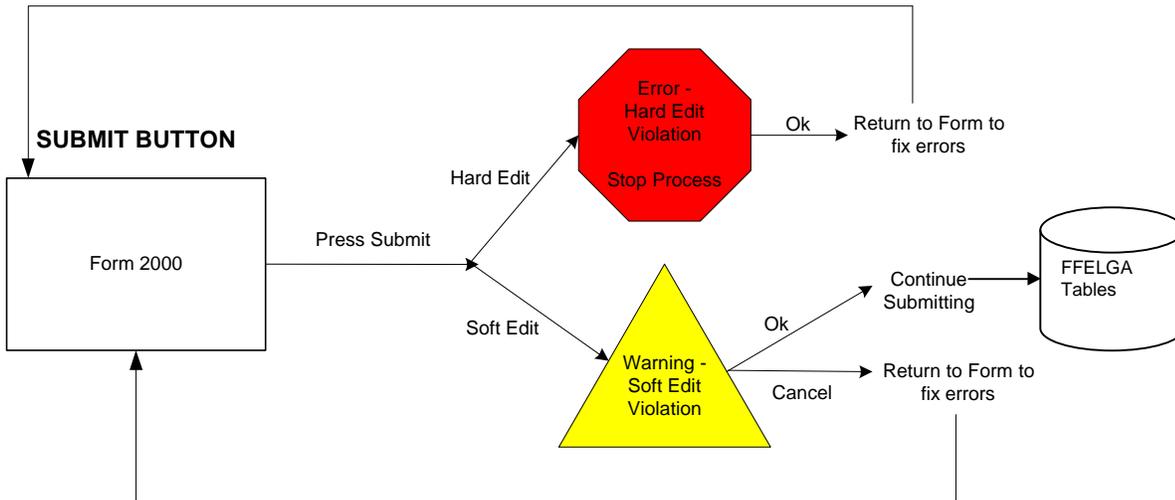
Design

Process Flow Diagram:

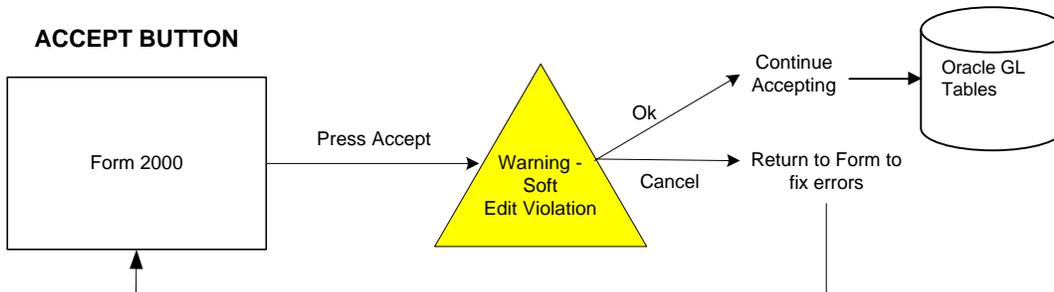
SAVE BUTTON



SUBMIT BUTTON



ACCEPT BUTTON



Hard Edits will have to be fixed by the GA User/Manager before the Form 2000 can be successfully submitted to the FP. However, if the GA submits the Form 2000 in violation of any Soft Edits, these will appear to the FP when the FP tries to Accept the form. The FP will have the same option to press Cancel to return to the form. At this point, if the FP decides they want to Reject the Form 2000 due to the Soft Edit violations they can do so. Or, the FP can press Ok and Accept the Form 2000 with the Soft Edit violations.



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Detailed Description of Changes to Existing Form:

The following list of hard and soft edits will need to be added to triggers on the Save function and on the Submit and Accept buttons in the form. The PRE-COMMIT (Save button) trigger and the WHEN-BUTTON-PRESSED (Submit and Accept buttons) triggers will be used.

Monthly Report Edits

MR-1, Claims Paid – If Default Claims, Principal Amount (MR-1-A) is greater than zero, then Default Claims, Principal Amount, (MR-1-A) must be less than or equal to 95 percent of Default Claims, Other Amount (MR-1-A), otherwise reject the submission. Hard Edit – ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
IF      MR1_A_P > 0.00
THEN    MR1_A_P <= (MR1_A_O * 0.95)
```

MR-10, Rehabilitated Loan Refund - If Rehabilitated Loan Refund, Principal Amount (MR-10) is greater than zero, then divide (MR-10 Principle divided by 0.815) by MR10-A Principal. The result should be less than or equal to 18.50%. If the result is greater than 18.50%, display warning. Soft Edit – WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.

```
IF      MR10_P > 0.00
THEN    ((MR10_P/0.815)/MR10_A_P) <= 0.185
```

MR-11, FFEL Consolidation Refund - If FFEL Consolidation Refund, Principal Amount (MR-11) is greater than zero, sum MR-11-A (Principal Amount) plus MR-11-A (Interest Amount) then divide MR-11-B (Other Amount) by sum of MR-11-A (Principal and Interest Amounts). If result is greater than 18.5%, reject submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
IF      MR11_P > 0.00
THEN    MR11_B_O / (MR11_A_P+ MR11_A_I) <= 0.185
```

MR-12, GA Administrative Wage Garnishment – If the sum of GA Administrative Wage Garnishment (MR-12 Principal, Interest and Other Amounts) is greater than zero, then the Sum MR-12-A (Administrative Wage Garnishment–Total Collected) Principal, Interest and Other Amounts must be greater than zero, otherwise reject the submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
IF      (MR12_P + MR12_I + MR12_O) > 0.00
THEN    (MR12_A_P + MR12_A_I + MR12_A_O) > 0.00
```

MR-12, GA Administrative Wage Garnishment – If the sum of GA Administrative Wage Garnishment (MR-12 Principal, Interest and Other Amounts) is greater than zero, then the Sum MR-12-B (Administrative Wage Garnishment–GA Retention) Principal, Interest and Other Amounts must be greater than zero, otherwise reject the submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
IF      (MR12_P + MR12_I + MR12_O) > 0.00
THEN    (MR12_B_P + MR12_B_I + MR12_B_O) > 0.00
```

MR-12, GA Administrative Wage Garnishment - If the sum of GA Administrative Wage Garnishment (MR-12 Principal, Interest and Other Amounts) is greater than zero, Sum MR-12-B (Administrative Wage Garnishment–GA Retention) Principal, Interest and Other Amounts and divide by Sum of MR-12-A (Administrative Wage Garnishment–Total Collected) Principal, Interest and Other Amounts. If calculated amount exceeds 25% reject the submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
IF      (MR12_P + MR12_I + MR12_O) > 0.00
THEN    (MR12_B_P + MR12_B_I + MR12_B_O) / (MR12_A_P + MR12_A_I + MR12_A_O) <= 0.25
```



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MR-13, Default Collections – If the sum of Default Collections (MR-13 Principal, Interest and Other Amounts) is greater than zero, then the Sum MR-13-A (Default Collections–Total Collected) Principal, Interest and Other Amounts must be greater than zero, otherwise reject the submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
IF      (MR13_P + MR13_I + MR13_O) > 0.00
THEN   (MR13_A_P + MR13_A_I + MR13_A_O) > 0.00
```

MR-13, Default Collections – If the sum of Default Collections (MR-13 Principal, Interest and Other Amounts) is greater than zero, then the Sum MR-13-B (Administrative Wage Garnishment–GA Retention) Principal, Interest and Other Amounts must be greater than zero, otherwise reject the submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
IF      (MR13_P + MR13_I + MR13_O) > 0.00
THEN   (MR13_B_P + MR13_B_I + MR13_B_O) > 0.00
```

MR-13, Default Collections - If the sum of Default Collections (MR-13 Principal, Interest and Other Amounts) is greater than zero, Sum MR-13-B (Default Collections–GA Retention) Principal, Interest and Other Amounts and divide by Sum of MR-13-A (Default Collections–Total Collected) Principal, Interest and Other Amounts. If calculated amount exceeds 25% reject the submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
IF      (MR13_P + MR13_I + MR13_O) > 0.00
THEN   (MR13_B_P + MR13_B_I + MR13_B_O) / (MR13_A_P + MR13_A_I + MR13_A_O) <= 0.25
```

Quarterly Report Edits (Monthly/Quarterly Form)

Federal Receivable Edit - The corresponding Monthly form must already be Accepted before the Monthly/Quarterly form can be submitted for that GA. If the Monthly form for that GA does not have a status of ‘Accepted’ then reject the submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
SELECT  pay_status
FROM    ffe1ga_monthly_reports
WHERE   ga_code = :SFAMON2.ga_code
AND     f_year  = :SFAMON2.f_year
AND     f_month = :SFAMON2.f_qrt_month;
```

```
IF pay_status != ‘Accepted’
THEN Reject the Submission.
```

Federal Receivable Edit – If the calculated value of the sum of MR33-MR40 Principal Amounts is not within +/- 2% of the value of MR32 Principal Amount, reject the submission. When this calculation is performed, it is assumed that the corresponding monthly report has already been submitted. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
MR33_P + MR34_P + MR35_P + MR36_P + MR37_P + MR38_P + MR39_P + MR40_P between +/- 2% of MR32_P
```

Federal Receivable Edit – If the calculated value of the sum of MR33-MR40 Interest Amounts is not within +/- 2% of the value of MR32 Interest Amount, reject the submission. When this calculation is performed, it is assumed that the corresponding monthly report has already been submitted. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

```
MR33_I + MR34_I + MR35_I + MR36_I + MR37_I + MR38_I + MR39_I + MR40_I between +/- 2% of MR32_I
```



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Federal Receivable Edit – If the calculated value of the sum of MR33-MR40 Principal Amounts (period 2) is not within +/- 2% of the value of MR32 Principal Amount (period 1) plus the detail information Principal Amounts from period 2, reject the submission. When this calculation is performed, it is assumed that the corresponding monthly report has already been submitted. Current month data will be compared to previous month data only. EX: "Period 1" = Sep, "Period 2" = Oct. Soft Edit - WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.

((MR33_P + MR34_P + MR35_P + MR36_P + MR37_P + MR38_P + MR39_P + MR40_P) for period 2)
between +/- 2% of Fed Receivable Amount ((MR32_P for period 1) + ((MR1A_P + MR1B_P + MR3A_P + MR3B_P + MR3C_P + MR4_P + MR18_P + MR19_P + MR23_P + MR30_P – MR5A_P – MR5B_P - MR6A_P - MR6B_P – MR7A_P - MR7B_P - MR8A_P - MR8B_P - MR9A_P – MR9B_P - MR10_P - MR10A_P - MR11_P - MR12_P – MR12B_P - MR13_P - MR13B_P - MR17_P - MR20_P – MR21_P - MR22_P - MR24_P - MR25_P - MR27_P – MR28_P - MR29_P + MR31_P) for period 2))

Federal Receivable Edit – If the calculated value of the sum of MR33-MR40 Interest Amounts (period 2) is not within +/- 2% of the value of MR32 Interest Amount (period 1) plus the detail information Interest Amounts from period 2, reject the submission. When this calculation is performed, it is assumed that the corresponding monthly report has already been submitted. Current month data will be compared to previous month data only. EX: "Period 1" = Sep, "Period 2" = Oct. Soft Edit - WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.

((MR33_I + MR34_I + MR35_I + MR36_I + MR37_I + MR38_I + MR39_I + MR40_I) for period 2)
between +/- 2% of Fed Receivable Amount ((MR32_I for period 1) + ((MR1A_I + MR1B_I + MR3A_I + MR3B_I + MR3C_I + MR4_I + MR18_I + MR19_I + MR23_I + MR26_I + MR30_I - MR5A_I - MR5B_I - MR6A_I - MR6B_I – MR7A_I - MR7B_I - MR8A_I - MR8B_I - MR9A_I – MR9B_I - MR10_I - MR10A_I - MR11_I - MR12_I – MR12B_I - MR13_I - MR13B_I - MR17_I - MR20_I – MR21_I - MR22_I - MR24_I - MR25_I - MR27_I – MR28_I - MR29_I + MR31_I) for period 2))

MR-31, Other Transactions Affecting Federal Receivables – If MR-31, Principal, Interest, or Other Amounts is greater than zero GA must enter a comment in the ‘GA Comment’ section of the Monthly/Quarterly Form 2000. If ‘GA Comment’ is NULL, reject the submission. Hard Edit - ERROR Message WHEN-BUTTON-PRESSED, WARNING message PRE-COMMIT.

IF MR31_P > 0 OR MR31_I > 0 OR MR31_O > 0
THEN GA Comment IS NOT NULL

Annual Report Edits

AR-17, Reinsurance from ED – AR-17, Reinsurance From ED should be less than AR-21, Claims Expensed to Lenders for the same period. Soft Edit - WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.
AR17_CY < AR21_CY



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This applies to all data elements from actual AR17_CY through CY+5 Projections and the corresponding AR21 values for a current submission.

AR-26/15, Ending/Beginning Balance - AR-26 Ending Balance of FY Previous should be the Beginning Balance for AR-15 FY Current in the Federal Fund. (Note: AR-26 is a system-calculated field). AR-26 from the Previous FY will come from the most current amended Annual Form 2000 version. For example, if the Annual Form 2000 has an original version and 2 amendments, the value used in this edit will come from the second Amendment. Soft Edit - WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.
 $AR26_CY$ (prior FY) = $AR15_CY$ (current FY)

AR-17, Reinsurance from ED – AR-17, Reinsurance From ED should equal the sum of monthly reporting (October through September) for the corresponding fiscal year for the following data elements. Soft Edit - WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.

- +MR-1, Claims Paid, Principal Amount
- MR-5, Repurchases-CFY, Principal Amount
- MR-6, Repurchases-PFY, Principal Amount
- MR-7, Partial Refunds-CFY, Principal Amount
- MR-8 Partial Refunds-PFY, Principal Amount
- MR-9 Overstated Claims, Principal Amount

$AR17_CY$ (current year) = (SUM(MR_1 Claims Paid Principal -
MR_5 Repurchases-CFY Principal -
MR_6 Repurchases-PFY Principal -
MR_7 Partial Refunds-CFY Principal -
MR_8 Partial Refunds-PFY Principal -
MR_9 Overstated Claims Principal)
(for all months in the corresponding fiscal year added together))

AR-40/29, Ending/Beginning Balance – AR-40, Ending Balance of FY Previous should equal AR-29, Beginning Balance for FY Current. AR-40 from the Previous FY will come from the most current amended Annual Form 2000 version. For example, if the Annual Form 2000 has an original version and 2 amendments, the value used in this edit will come from the second Amendment. Soft Edit - WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.
 $AR40_CY$ (FY Previous) = $AR29_CY$ (FY Current)

AR-37, Collections of Defaulted Loans – AR-37, Collections of Defaulted Loans (Secretary’s Share) must be greater than 70% of the sum of AR-18, Collections on Defaulted Loans-Reinsurance Complement plus AR-34, Collections Less Reinsurance Complement. Soft Edit - WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.
 $AR37_CY > 0.70(AR18_CY + AR34_CY)$

AR-37, Collections of Defaulted Loans - AR-37, Collections on Defaulted Loans (Secretary’s Share) should equal the sum of monthly reporting (October through September) for line items MR-10 Rehabilitated Loan Refund, MR-11, FFEL Consolidation Refund, MR-12, Administrative Wage Garnishment, MR-13, Default Collections, and MR-14, Bankruptcy Collections for Principal, Interest, and Other Amounts. Soft Edit - WARNING Message both WHEN-BUTTON-PRESSED and PRE-COMMIT.
 $AR37_CY = (MR10_P + MR11_P + MR11_I + MR12_P + MR12_I + MR12_O + MR13_P + MR13_I + MR13_O + MR14_P + MR14_I + MR14_O)$ (for all months in that fiscal year added together)

Reasonability Check Changes –



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The SFA_REASON_CHECK.ck_mrs procedure performs the reasonability check for fields MR-1 through MR-23 to ensure the entered amounts are + or -5% of the corresponding amount for the same month of the previous year. This code will be commented out. However, existing logic to check if the fields are not equal to zero will remain unchanged.

Menu:
N/A

Database Objects:

Database Object Name	Object Type	Oracle Application	Comments

Data/Control Objects:

Block Name/Region Name	Field Name	Object Name	Object Properties	Dependencies (Data and Control)	Table Name/Column Name	Functional Notes / Calculations / Translations	Comments
SFAMON – block	N/A	PRE-COMMIT	Trigger			Fires before records are committed to the database. On failure no records will be committed and control will return back to the form.	
SFAMON – block on Monthly form	SUBMIT	WHEN-BUTTON-PRESSED	Trigger			Fires when button is pressed. Warning or Error message will appear.	
SFAMON – block on Monthly form	APPROVE	WHEN-BUTTON-PRESSED	Trigger			Fires when button is pressed. Warning message will appear for Soft Edit violations.	
SFAANN – block	N/A	PRE-COMMIT	Trigger			Fires before records are committed to the database. On failure no records will be committed and control will return back to the form.	
SFAANN – block on Annual form	SUBMIT	WHEN-BUTTON-PRESSED	Trigger			Fires when button is pressed. Warning message will appear (all annual edits are Soft Edits).	
SFAANN – block on Annual form	APPROVE	WHEN-BUTTON-PRESSED	Trigger			Fires when button is pressed. Warning message will appear for Soft Edit violations.	



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SFAMQRT – SFAMON2 block on Quarterly form	N/A	PRE-COMMIT	Trigger			Fires before records are committed to the database. On failure no records will be committed and control will return back to the form.
SFAMON2 – block on Quarterly form	SUBMIT	WHEN-BUTTON-PRESSED	Trigger			Fires when button is pressed. Warning message will appear (Soft Edit).
SFAMON2 – block on Quarterly form	ACCEPT	WHEN-BUTTON-PRESSED	Trigger			Fires when button is pressed. Warning message will appear for Soft Edit violations.
SFAMON – form SFA_REASON_C HECK PACKAGE	Ck_mrs		Procedure			Code to check for +/- 5% on fields MR1-MR23 will be commented out.

Dependencies

Dependencies on Other RICE Components:

Annual Amended Form 2000 changes must be complete for Annual Edits.

Dependencies on Other Business Components:

None

Design Constraints:

N/A

Performance Considerations:

Form/Block level triggers will be used. Due to the high number of edits that will be performed upon Saving, Submitting or Accepting the report, performance could become an issue. The edits may cause a time delay in how quickly the Save/Submit/Accept buttons respond.

Implementation Considerations:

N/A

Other Dependencies/Special Concerns:

N/A



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Error Handling

Potential Errors	Possible Reasons	Solution Strategy
Triggers not firing on Save.	Most recent version of form not on server.	Check the form code, recompile on server and try again.
Triggers not firing on Submit.	Most recent version of form not on server.	Check the form code, recompile on server and try again.
Triggers not firing on Accept.	Most recent version of form not on server.	Check the form code, recompile on server and try again.
User receives messages regarding amounts not being within +/- 5% of the previous year value.	Most recent version of form not on server.	Check the form code, recompile on server and try again.

Testing Requirements

Requirements Matrix Reference	Test Condition	Expected Results
3.1, 3.2, 3.3, 3.5	Default Claims, Principal Amount (MR-1-A) is greater than zero and Default Claims, Principal Amount (MR-1-A) is greater than or equal to 95 percent of Default Claims, Other Amount (MR-1-A).	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.5	Default Claims, Principal Amount (MR-1-A) is greater than zero and Default Claims, Principal Amount (MR-1-A) is less than 95 percent of Default Claims, Other Amount (MR-1-A).	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.4, 3.6	Rehabilitated Loan Refund, Principal Amount (MR-10) is greater than zero and (MR10_P/0.815)/MR10_A_P is less than or equal to 18.5 percent.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.6	Rehabilitated Loan Refund, Principal Amount (MR-10) is greater than zero and (MR10_P/0.815)/MR10_A_P is greater than 18.5 percent.	When user attempts to save, a warning message will be displayed but the user will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected. When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.3, 3.7	FFEL Consolidation Refund, Principal Amount (MR-11) is greater than zero and MR-11-B, Other Amount is less than or equal to 18.5 percent of the sum of MR-11-A, Principal Amount and MR-11-A, Interest Amount.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.7	FFEL Consolidation Refund, Principal Amount (MR-11) is greater than zero and MR-11-B, Other Amount is greater than 18.5 percent of the sum of MR-11-A, Principal Amount	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts



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	and MR-11-A, Interest Amount.	to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.8	Sum of MR-12, GA Administrative Wage Garnishment (Principal, Interest, and Other Amounts) is greater than zero and the sum of MR-12-A, Administrative Wage Garnishment-Total Collected (Principal, Interest, and Other Amounts) is greater than zero.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.8	Sum of MR-12, GA Administrative Wage Garnishment (Principal, Interest, and Other Amounts) is greater than zero and the sum of MR-12-A, Administrative Wage Garnishment-Total Collected (Principal, Interest, and Other Amounts) is less than or equal to zero.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.9	Sum of MR-12, GA Administrative Wage Garnishment (Principal, Interest, and Other Amounts) is greater than zero and the sum of MR-12-B, Administrative Wage Garnishment-GA Retention (Principal, Interest, and Other Amounts) is greater than zero.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.9	Sum of MR-12, GA Administrative Wage Garnishment (Principal, Interest, and Other Amounts) is greater than zero and the sum of MR-12-B, Administrative Wage Garnishment-GA Retention (Principal, Interest, and Other Amounts) is less than or equal to zero.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.10	Sum of MR-12, GA Administrative Wage Garnishment (Principal, Interest, and Other Amounts) is greater than zero and the sum of MR-12-B, Administrative Wage Garnishment-GA Retention (Principal, Interest, and Other Amounts) divided by the sum of MR-12-A, Administrative Wage Garnishment-GA Total Collected (Principal, Interest, and Other Amounts) is less than or equal to 25 percent.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.10	Sum of MR-12, GA Administrative Wage Garnishment (Principal, Interest, and Other Amounts) is greater than zero and the sum of MR-12-B, Administrative Wage Garnishment-GA Retention (Principal, Interest, and Other Amounts) divided by the sum of MR-12-A, Administrative Wage Garnishment-GA Total Collected (Principal, Interest, and Other Amounts) is greater than 25 percent.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.11	Sum of Default Collections MR-13, Principal, Interest and Other Amounts is greater than zero and the sum MR-13-A, Default Collections-Total Collected (Principal, Interest and Other Amounts) is greater than zero.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.11	Sum of Default Collections MR-13, Principal, Interest and Other Amounts is greater than zero and the sum MR-13-A, Default Collections-Total Collected (Principal, Interest and Other Amounts) is less than or equal to zero.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.12	Sum of Default Collections MR-13, Principal, Interest and	Allows user to Save, Submit and Accept



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	Other Amounts is greater than zero and the sum MR-13-B, Administrative Wage Garnishment-GA Retention (Principal, Interest and Other Amounts) is greater than zero.	form.
3.1, 3.2, 3.3, 3.12	Sum of Default Collections MR-13, Principal, Interest and Other Amounts is greater than zero and the sum MR-13-B, Default Collections-Total Collected (Principal, Interest and Other Amounts) is less than or equal to zero.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.13	Sum of MR-13, Default Collections (Principal, Interest, and Other Amounts) is greater than zero and the sum of MR-13-B, Default Collections-GA Retention (Principal, Interest, and Other Amounts) divided by the sum of MR-13-A, Default Collections-Total Collected (Principal, Interest, and Other Amounts) is less than or equal to 25 percent.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.13	Sum of MR-13, Default Collections (Principal, Interest, and Other Amounts) is greater than zero and the sum of MR-13-B, Default Collections-GA Retention (Principal, Interest, and Other Amounts) divided by the sum of MR-13-A, Default Collections-Total Collected (Principal, Interest, and Other Amounts) is greater than 25 percent.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.18	Corresponding Monthly form has been submitted for the Monthly/Quarterly form currently being submitted.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.18	Corresponding Monthly form has not been submitted for the Monthly/Quarterly form currently being submitted.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.14	Sum of MR33-40 Principal Amounts is within +/- 2% of MR32 Principal Amount.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.14	Sum of MR33-40 Principal Amounts is not within +/- 2% of MR32 Principal Amount.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.3, 3.15	Sum of MR33-40 Interest Amounts is within +/- 2% of MR32 Interest Amount.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.15	Sum of MR33-40 Interest Amounts is not within +/- 2% of MR32 Interest Amount.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.4, 3.16	Sum of MR33-MR40 Principal Amounts (current month) is within +/- 2% of MR32 Principal Amount (previous month) plus all detail information Principal Amounts (current month, see calc above).	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.16	Sum of MR33-MR40 Principal Amounts (current month) is not within +/- 2% of MR32 Principal Amount (previous	When user attempts to save, a warning message will be displayed but the user



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	month) plus all detail information Principal Amounts (current month, see calc above).	will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected. When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.4, 3.17	Sum of MR33-MR40 Interest Amounts (current month) is within +/- 2% of MR32 Interest Amount (previous month) plus all detail information Interest Amounts (current month, see calc above).	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.17	Sum of MR33-MR40 Interest Amounts (current month) is not within +/- 2% of MR32 Interest Amount (previous month) plus all detail information Interest Amounts (current month, see calc above).	When user attempts to save, a warning message will be displayed but the user will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected. When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.3, 3.25	MR-31, Principal, Interest, or Other Amount is greater than zero and the 'GA Comment' field has been filled out.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.3, 3.25	MR-31, Principal, Interest, or Other Amount is greater than zero and the 'GA Comment' field has not been filled out.	When user attempts to save, a warning message will be displayed but the user will be able to save. When user attempts to Submit, an error message will be displayed and the user will not be able to Submit the form.
3.1, 3.2, 3.4, 3.19	AR-17, Reinsurance Form ED is less than AR-21, Claims Expensed to Lenders for the same period.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.19	AR-17, Reinsurance Form ED is greater than AR-21, Claims Expensed to Lender for the same period.	When user attempts to save, a warning message will be displayed but the user will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected. When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.4, 3.20	AR-26 Ending Balance of Previous FY is equal to the Beginning Balance for AR-15, Current FY in the Federal Fund.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.20	AR-26 Ending Balance of Previous FY is not equal to the Beginning Balance for AR-15, Current FY in the Federal Fund.	When user attempts to save, a warning message will be displayed but the user will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected.



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		When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.4, 3.20	AR-26 Ending Balance from Previous FY is coming from the most updated amendment of the Annual Form 2000.	Value used in edit is coming from the most updated record for the Previous FY Annual Form 2000.
3.1, 3.2, 3.4, 3.21	AR-17, Reinsurance From ED is equal to the sum of monthly reporting (October through September) for the corresponding fiscal year for the following data elements: +MR-1 Claims Paid, Principal Amount, -MR-5 Repurchases-CFY, Principal Amount, -MR-6 Repurchases-PFY, Principal Amount, -MR-7, Partial Refunds-CFY, Principal Amount, -MR-8 Partial Refunds-PFY, Principal Amount, -MR-9 Overstated Claims, Principal Amount.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.21	AR-17, Reinsurance From ED is not equal to the sum of monthly reporting (October through September) for the corresponding fiscal year for the following data elements: +MR-1 Claims Paid, Principal Amount, -MR-5 Repurchases-CFY, Principal Amount, -MR-6 Repurchases-PFY, Principal Amount, -MR-7, Partial Refunds-CFY, Principal Amount, -MR-8 Partial Refunds-PFY, Principal Amount, -MR-9 Overstated Claims, Principal Amount.	When user attempts to save, a warning message will be displayed but the user will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected. When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.4, 3.22	AR-40, Ending Balance of Previous FY is equal to AR-29, Beginning Balance for Current FY.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.22	AR-40, Ending Balance of Previous FY is not equal to AR-29, Beginning Balance for Current FY.	When user attempts to save, a warning message will be displayed but the user will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected. When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.4, 3.22	AR-40 Ending Balance from Previous FY is coming from the most updated amendment of the Annual Form 2000.	Value used in edit is coming from the most updated record for the Previous FY Annual Form 2000.
3.1, 3.2, 3.4, 3.23	AR-37, Collections on Defaulted Loans (secretary's share) is greater than 70 percent of the sum of AR-18, Collections on Defaulted Loans-Reinsurance Complement and AR-34, Collections Less Reinsurance Complement.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.23	AR-37, Collections on Defaulted Loans (secretary's share) is less than 70 percent of the sum of AR-18, Collections on Defaulted Loans-Reinsurance Complement and AR-34, Collections Less Reinsurance Complement.	When user attempts to save, a warning message will be displayed but the user will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected.



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		When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.4, 3.24	AR-37, Collections of Defaulted Loans is equal to the sum of monthly reporting (October through September) for line items MR-10 Rehabilitated Loan Refund, MR-11 FFEL Consolidation Refund, MR-12 Administrative Wage Garnishment, MR-13 Default Collections, and MR-14 Bankruptcy Collections for Principal, Interest, and Other Amounts.	Allows user to Save, Submit and Accept form.
3.1, 3.2, 3.4, 3.24	AR-37, Collections of Defaulted Loans is not equal to the sum of monthly reporting (October through September) for line items MR-10 Rehabilitated Loan Refund, MR-11 FFEL Consolidation Refund, MR-12 Administrative Wage Garnishment, MR-13 Default Collections, and MR-14 Bankruptcy Collections for Principal, Interest, and Other Amounts.	When user attempts to save, a warning message will be displayed but the user will be able to save. When GA user attempts to Submit, a warning message will be displayed but the user will be able to submit the form if OK is selected. When FP user attempts to Accept, a warning message will be displayed but the user will be able to accept the form if OK is selected.
3.1, 3.2, 3.3, 3.4	FP users should only see Soft Edits on Save and Accept. Need to verify that ONLY soft edits show up when an FP user is Saving.	When an FP user Saves the form, the edit code will execute all soft and hard edits. Since all hard edits had to be fixed before Submitting successfully NO hard edits should appear.
3.26	Reasonability check for fields MR1-MR23 being outside +/- 5% of the previous year value should NOT fire. Enter numbers outside of this range.	Form should allow user to enter numbers outside of the +/- 5% range with no error messages.

Issues and Additional Considerations

The following Issues were defined during Functional Design:

Issue	Raised By / Date Needed	Resolution/Answer	Resolved By / Date Completed
Should Error and Warning Messages be meaningful and explain the edit that has been violated and what needs to happen to fix it? Current edits in Form 2000 simply tell the user which field they have to fix. They do not explain what is wrong.	Laura Stein/Technical Design	Emily Plenge and Laura Stein met with Barbara Johnson and Sandra Simmons on 3/27 to go through the propose verbage of the messages. This will be documented in the Technical Design.	Sandra Simmons & Barbara Johnson - 3/27/02
Do we need to add a check to see if the Quarterly report is Q not M (monthly/quarterly) and if not give the user an error message saying they must submit Monthly/Quarterly?	Laura Stein/ASAP		