



Clarifications:

Issue	SSG Comment
Default curve for Baa	Posted
Marginal quarterly default	Posted
Calls on CLO tranches	No calls assumed on CLO
Post Reinvestment Period Reinvestment	None
Interest Calculation	Based on each outstanding loan.
Default Periodicity	Based on each loan's pay period

<u>List of Open Issues</u>: Staff believes that the issues below are mechanical in nature and their solutions should not be controversial or delay the process.

Issue	SSG Comment
Reinvestment Assumptions. More detail on the	Medium term issue. Will provide clarification.
assumed mechanism - including type (bond/loan)	
and WAL.	
Detail on Caa default vectors. We have been	Medium term issue. Caa default data is not as
asked to provide more detail on this vector, given	historically common and tends to bump to 100%
its outsized impact on some deals.	in stress scenarios. Will provide.
Initial conditions. Dealing with current amount in	Long term issue. Initial conditions of model.
Int/Defaults. That is, how to deal with current	Need to firm up the disclosure of the mechanics
amounts reported in the trustee report.	of Interest Proceeds estimation (Current Bucket +
Additionally, how to deal with currently held	projected remaining in period). Defaulted bucket
equity securities and other not-debt.	is currently recovered after 6 months.
Use of Issuer rating. Most of the deals we have	Longer term issue we will work on an
modeled have the Moody's Issuer rating	arrangement where the mapping of the loan
populated and, as a result, we did not have to	ratings is consistent and transparent.
make any changes. We have learned through this	
process that this not the case for other platforms.	
Recovery Categories. Similar to above, but with	Longer term issue. Will work on mapping other
respect to recovery categories.	Moody's and non-Moody's categories. Goal here
	Is simplicity and a small number of categories.

Prepay impact: Run In all scenarios.

Aspect	Assumption
CPR	10% pa
Purchase price	92 on both prepays and reinvested recoveries



NAIC Collateralized Loan Obligation (CLO) Stress Tests Methodology

Scope

- We will model all tranches of broadly syndicated loan CLOs held by U.S. insurance companies.
- At this stage we will exclude:
 - Commercial real estate (CRE) CLOs The risk is commercial real estate, and different assumptions are required.
 - Re-securitizations, asset-backed securities (ABS), collateralized debt obligations (CDOs) and trust preferred securities (TruPS) CDOs – They are out of scope.
 - Middle market CLOs They are temporarily excluded, as the asset class requires specialized assumptions. We hope to return to these assets shortly.
- Another limitation is the availability of the specific CLO via our third-party software vendor.

Givens

- These will be determined via the "Scenario" portion of the process following the setting of the methodology.
- Assume that the inputs are periodic "partial" default rates for each loan based on the current rating.
- In addition, assume each loan has a recovery rate, based on its seniority, for that period.

Assigning Ratings to Underlying Assets

- Historical default rates are reported at the issuer level, while the debt instrument typically
 has an issue rating, which may be different. The issuer rating is used to calibrate the default
 rate, while the issue rating influences the recovery rate.
- We propose the following logic:
 - o If an asset has an **Issuer** rating available within our third party software (generally those reported by Moody, Standard & Poor's (S&P) or Fitch), that rating will be used to set the applicable default rating.
 - Otherwise, if an asset has an **Issue** rating available within our third party software (generally those reported by Moody, S&P or Fitch) that rating will be adjusted to set the applicable default rating as follows:
 - Asset is reported as Senior Secured Loan or Senior Unsecured Bond: default rating = Issue rating + 1 notch (i.e. higher default probability)
 - Otherwise: default rating = Issue rating
 - This is different from our stress tests



- If the Securities Valuation Office has assigned an NAIC Designation Category to the Issue, that NAIC Designation Category will be used, unadjusted.
- Once a default rating has been established, the loan will be assumed to "partially default" until its maturity.

Recovery Rate

Principal is recovered 6 months (2 periods) after default

Cash Flow Assumptions

Interest Rates / Proceeds

- Forward Secured Overnight Financing Rate (SOFR) curve as of evaluation date
- Interest Proceeds for each period are based on the weighted average current portfolio spread plus the applicable base rate times the non-defaulting principal.

Maturities and prepayments

- o Non-defaulting portions of each loan mature based on the legal maturity
- No prepayments assumed

• Reinvestment

- No post-reinvestment period reinvestment
- Reinvestment collateral is purchased at par
- Reinvestment occurs before payment date i.e., there are no principal proceeds in the waterfall that can be used to pay interest or satisfy overcollateralization (O/C) tests
- Reinvestment is assumed to have a rating equal to the transaction's weighted average rating factor (WARF). If the WARF is not reported, then it is assumed to be 4.C (B3) and is defaulted as stated above.
- Reinvested collateral is tracked per reinvestment bucket (e.g., all reinvested collateral in one time period is tracked separately from collateral reinvested in another time period).

Event timing

- o Periodic payment on identified collateral as per loan terms
- Periodic payment on reinvested collateral quarterly
- Collateral defaults on its interest payment date (prior to paying interest or principal)