Source Code Review Form

| Train Name |

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| Application Name |

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| User Story/Jira Card# |

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| Pull Request# |

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| No. of Components |

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| Dev Code Environment |

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| Summary of the Change |

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| Language/Technology |

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| Reviewer Role and Name |

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| Date of Review |

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| Overall Review Status |

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Note: Source code is to be reviewed considering each of the standard as defined in this checklist given below. In case of &quot;No&quot; against any standard, please make sure that it is explained in the SCR&#39;s Issue Description column.

Developer must ensure that all the review comments are closed and verified by reviewer. In case of any non-compliance, it must be explained in the SCR&#39;s Issue Description column and concurrence of reviewer is sought.

| \*\*Functionality\*\* | \*\*Yes/ No/ NA\*\* | \*\*Issue Description\*\* |

| --- | --- | --- |

| \*\*Annotation Standards\*\* |

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| CR number documented in code? |

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| Developer&#39;s name in the code? |

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| Revision history completed, including date of change? |

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| Is there a brief description of module function? (If not in the code module, document where this is located.) |

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| Does the code adhere to the [naming standards](https://lilly-qualitydocs.veevavault.com/ui/#doc\_info/1193805/1/0?anQS=page1&amp;annotate=false)?(Cloud) |

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| Does the code adhere to the [naming standards](https://gso.my.salesforce.com/069b0000003Z327)?(On-premise) |

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| Has a uniform naming convention been adhered to? |

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| Have the following guidelines been adhered to while declaring variables?

- One variable per line (by and large).

- Variables of the same type declared together.

- Variables declared in alphabetical order/logical order/order of data types.

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| \*\*Understandability\*\* |

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| Were formatting standards properly applied (spacing, indentation, etc.)? |

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| Do variables have descriptive names? |

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| \*\*Maintainability\*\* |

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| Is the code easy to understand and follow for maintenance? |

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| \*\*Process Specifications\*\* |

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| Are common/standard subroutines or procedures used where applicable? |

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| Are all arguments to subprograms/subroutines passed correctly (argument definitions match between calling program and subroutine)? |

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| Is modularity used wherever feasible, in order to eliminate redundant or duplicate logic? |

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| Does the code logic satisfy all of the program specifications in the design documentation? |

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| Is the programming defensive in nature, including checks for?

- Input errors

- File handling errors

- Arithmetic errors

- Output errors

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| \*\*Conditions / Decision Criteria\*\* |

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| Were all conditions (logical paths) reviewed |

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| Are required initializations done properly? |

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| Are all variables defined/declared? |

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| Are all error messages/information for the user meaningful? |

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| Have all the exception cases been trapped and handled? |

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| \*\*Sequencing\*\* |

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| Was the code put in the proper sequence? (by paragraph or label sequence number, for coding languages that permit such) |

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| Is the use of nested &quot;if&quot; statements correct? |

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| Are all debugging statements bypassed or removed when the program has passed unit testing? |

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| Is there an exit condition for every loop? |

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| Is every unconditional branch statement (GOTO) used properly? |

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| \*\*Formula(s)\*\* |

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| Were all formulas/algorithms/number or code assignment logic for the change/new implementation tested? |

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| \*\*Calculations\*\* |

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| Were all calculations for the change/new implementation tested? |

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| Has the possibility of division by zero been eliminated? |

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| Are all array references properly limited by the size of the array? |

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| \*\*Other Critical Parameters\*\* |

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| Does the code change satisfy the requirements or change request? |

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| Has all source code been placed into the correct place/folder |

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| Has performance optimization been maximized? |

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| \*\*Query Optimization\*\* |

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| Is Query optimization required (Yes/No)?

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| If yes, describe how it was optimized and any impact on existing system

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| If not required, please provide justification:

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| \*\*Dead Code\*\* |

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| Was all dead (non-executable) code removed? |

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Page 7 of 7