

**SCDOT LOAD RATING
TRACKER SPREADSHEET INSTRUCTIONS
July 15, 2019**

Column A

Group No.: Lists the priority group of structure. Groups range from 1 (highest priority) to 90 (lowest priority). Generally complete load ratings in order of priority.

Columns B-K

Miscellaneous structure inventory information obtained from SCDOT's bridge database. Review this information and notify the S.B.M.E. (via Michael Baker) if any errors or discrepancies are found.

Column L

Scour Critical [3 or U?]: Input **Y** for scour ratings (NBI Item #113) 3 or under; input **N** for scour ratings ≥ 4 .

Column M

Lowest NBI Condition of Deck, Superstructure, Substructure or Culvert: Input the lowest NBI condition rating of these four items (as applicable).

Columns N-R

Miscellaneous structure information obtained from SCDOT's bridge database. Review this information and notify the S.B.M.E. (via Michael Baker) if any errors or discrepancies are found.

Column S

Completion Status: Input current status of every structure

1. Not started – structure assessment and load rating work have not yet begun.
2. Site Assessed – site assessment has been performed; load rating not yet complete.
3. LR Input/Checked – load rating has been fully input and checked [LRGD Section 3.4].
4. LR QC Complete – load rating has been fully QC'd [LRGD Section 3.5.1]; all QC comments have been addressed, QC checklist has been filled out and bridge files have been uploaded to ProjectWise (PW).
5. LR QA Complete –
 - a. if bridge has been selected for QA, input this status when QA comments have been fully addressed and updated load rating files have been uploaded to PW.
 - b. if bridge has not been selected for QA, see below.
6. Finished – all reviews complete, Bridge File updated, and all applicable files and forms have been uploaded to PW.

Column T

Load Rating Added to the Hexagon Routing System via AI Engineers: [AI Engineers will send Michael Baker a weekly list of bridges which have been added to the Hexagon system. Michael Baker will update column T.]

Column U

Awaiting a Decision from the S.B.M.E. or Designated Representative: Enter **Y** if any item(s) requires the approval of the S.B.M.E., a "Bridge Maintenance Office Approvals Form" has been submitted to the S.B.M.E. (via Michael Baker), and no decision has been issued yet. Enter **N** otherwise.

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Column V

Bridge Maintenance Office Approvals Form Submitted: Enter the date the “Bridge Maintenance Office Approvals Form” was submitted to S.B.M.E. (via Michael Baker) for review (if applicable).

Note: multiple submissions of the Bridge Maintenance Office Approval Form may be required over the duration of the load rating process. For instance, approval to use alternative rating software would be obtained prior to requesting permission to use a reduced impact factor for the rating (as an example). Approval forms for each individual bridge rating may be submitted daily as needs for approval arise. The date in this column shall be the date on which the latest approval form was submitted and is still awaiting a decision.

Column W

Notes: Enter the list of decision(s) requiring approval.

Column X

Are Plans Available: Enter **Y** if existing plans are available showing details of the full bridge structure adequate to perform the load rating (As-built, As-let, Standard Plan, or Shop Drawings, etc.); enter **N** if no plans are available for the load rating; enter **Partial** if some plans are available but a portion of the structure is missing plans (for example: widening plans are available but the original plans are missing, or original plans are available but widening plans are missing, etc.).

Column Y

As-Built #, As-Let #, Standard, other: Enter the plan number(s) of all plans available for the rating. Add a suffix to each plan number to indicate as-built, as-let, and/or standard plans. Separate multiple plan numbers using a semi-colon. (Ex.: 42.499.3[AL]; 42.931[AB]). If no plans are available, leave blank.

where,

AB = as-built plans

AL = as-let plans

St = standard plans

Column Z

Can structure be rated with BrR: Enter **Y** for structures which can be fully rated in BrR; enter **Partial** for bridges which can be partially modeled in BrR but also have other components/members/spans which are rated outside BrR; enter **N** for structures which cannot be rated with BrR.

Column AA

Software used for rating: Enter any software(s) other than BrR used to perform ratings (i.e., when column Y = “Partial” or “N”). Leave blank if structure is fully rated in BrR (no need to enter “Excel” or “MathCad” to account for supporting calculations for structures rated in BrR).

Column AB

BrR Controls Overall Rating: Enter **Y** if the controlling ratings are output by the BrR model; enter **N** if controlling ratings (some or all rating vehicles) are computed in other software.

Column AC

Substructure Rating Required: LRGD requires timber substructures with a rating of 5 or less be load rated. Enter **Y** rating is required; enter **N** if substructure load rating is not required.

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Column AD

Site Assessment Completed: Enter the date the initial site assessment was performed (site assessments are required for ALL structures).

Column AE

Detailed Site Assessment Required: Enter **Y** if conditions dictate that a detailed site assessment is warranted (no plans available, deterioration unable to be quantified by initial assessment, additional information is needed to complete load rating, etc.). Refer to LRGD Section 5.5. Enter **N** otherwise.

Column AF

Detailed Site Assessment Justification [comments]: Provide justification as to why a detailed site assessment is required.

Column AG

Detailed Site Assessment Completed: Enter the date the detailed site assessment was completed (if applicable). Enter **N/A** if “Detailed Site Assessment Required” column = **N**.

Column AH

Emergency Rating Required: Enter **Y** if conditions found during an initial or detailed site assessment warrant an emergency load rating. The SCDOT S.B.M.E. (via Michael Baker) shall be notified immediately. Leave blank otherwise.

Column AI

Emergency Rating Completed: Enter the date the emergency rating was completed (input/checked/QC'd) and uploaded to PW, if applicable. Leave blank otherwise.

Column AJ

Data Correction Needed: Enter **Y** if information in the bridge SI&A form contains erroneous information which cannot be updated through the Bridge Inspection Office (BIO). If this column = Y, Consultant must submit a “Data Correction Form” to the S.B.M.E. (via Michael Baker). Refer to LRGD Section 5.4 and Appendix A5.2. If information in the SI&A form has all been verified to be correct and/or has been updated through BIO, a Data Correction Form does not need to be submitted. Enter **N** in this column.

Note: all bridges will require some level of data correction (i.e., updated load ratings, etc.). The intent of selecting “Y” in this column, and submitting a Data Correction Form to the S.B.M.E., is to create a “paper trail” for bridges with erroneous information which cannot and has not been corrected through the Bridge Inspection Office.

Column AK

Data Correction Form Submitted: Enter date the Data Correction Form was submitted to the S.B.M.E. (via Michael Baker) for review and approval. If no form is required, leave blank.

Column AL

Load Rating Completed: If bridge rating has been performed and checked (i.e., if the Completion Status column = “LR Input/Checked”), enter date loading became ready for QC review. If bridge rating has not made it to the QC review stage, leave blank.

Column AM

Load Rating QC Completed: Enter date QC review was completed (with QC Review checklist filled out). Leave blank if the bridge rating has not yet made it through the QC review phase.

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Column AN

Signed/Sealed Load Rating Package Submitted: Enter date the final signed/sealed load rating files and forms (refer to LRGD 20.2.1.1) were uploaded to PW. Leave blank otherwise.

Column AO

Random Number for QA Selection: [column to be input by Michael Baker or KCI during the QA selection process using random selection generator].

Column AP

Bridge Selected for QA: [column to be input by Michael Baker or KCI].

Column AQ

QA Consultant: [column to be input by Michael Baker or KCI].

Column AR

QA Review Completed: Enter date the QA comments were addressed and files were updated on PW (if applicable). Leave blank otherwise.

Column AS

Load Test, Material Test, NDT, or Other Testing Required: Enter **Y** if testing is required and approved by S.B.M.E. (via Michael Baker). Refer to LRGD Section 6.12. Enter **N** otherwise.

Column AT

Testing Performed: List the test(s) performed on the bridge (Load Test, Material Test, NDT [type], etc.).

Column AU

Rating Methodology Used on Signed/Sealed LRSF (and used to Determine Posting): Enter the rating methodology used on the final signed/sealed rating and used for determining bridge posting (if applicable).

Column AV

Bridge Posting Required: Enter **Y** if legal load ratings are < 1.0 and all relevant posting avoidance options have been pursued and approved by S.B.M.E. (via Michael Baker). Enter **N** otherwise.

Column AW

Bridge Signing/Posting Form Submitted: Enter date the Bridge Signing/Posting Form was submitted to the S.B.M.E. (via Michael Baker) for review and approval. Leave blank if no posting is recommended.

Column AX

Bridge Posting Reviewed and Approved: [column to be input by Michael Baker].

Column AY

District Notified of Posting: [column to be input by Michael Baker].