

**Summary Minutes Of The
AASHTOWare Bridge Design-Rating (BrDR) Task Force Meeting
January 23 – 24, 2018
Tampa, FL**

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General Information – Meeting of the Bridge Design & Rating Task Force

Date: Tuesday, January 23, 2018

Participants:

AASHTO	Judy Tarwater	AASHTO	Project Manager
SCOA	Tim Armbrecht	SCOA	SCOA Liaison
T&AA	Will Holmes	T&AA	T&AA Liaison
BrDR Task Force	Todd Thompson	South Dakota DOT	Chair
	Joshua Dietsche	Wisconsin DOT	Bridge Rating (BrR)
	Jeff Olsen	Montana DOT	Bridge Design (BrD)
	Tom Saad	FHWA	FHWA Liaison
	Dean Teal	Kansas DOT	Bridge Design (BrD)
BrM Task Force	Beckie Curtis	Michigan DOT	Bridge Management
	Mark Faulhaber	Kentucky DOT	Bridge Management
BrDR Contractor	Jim Duray	Michael Baker, International	BrDR Contractor
	Herman Lee	Michael Baker, International	BrDR Contractor
	Geoffrey Trees	Michael Baker, International	BrDR Contractor
Absent	Ping Lu	Iowa DOT	Bridge Rating (BrR)

Notes Taker: Judy Tarwater and Jeff Olsen.

Agenda Item 0: Review Agenda/Assign Minutes

Recorder

Todd Thompson opened the meeting at 8:00 am. Todd advised that Ping Lu is not able to attend the meeting due to work conflicts. Todd also advised that Bruce Johnson rotated off of SCOA in December. Tim Armbrecht is now assigned as the SCOA liaison for the Bridge Task Force. Tim Armbrecht reported that in the event he has a conflict with scheduled Bridge Task Force meetings, SCOA member Grant Rodeheaver will attend in his stead. The agenda was reviewed. No additional agenda items were added at this time.

Agenda Item 1: Prior Business

1a. Review August Meeting Minutes

Minutes from the November 1 - 2, 2017 Task Force Meeting in Santa Fe, NM were reviewed and approved as-is.

1b. Review Action Items

Jeff Olsen reviewed the Action Items.

Agenda Item 2: Financial Overview and Work Plan Summary

2a. Update on Phase 22 (FY2018)

Baker provided an update on the FY2018 MSE work plan as of 12/31/17.

2b. Update on 7.0 Release Work Plan (June 2019)

Baker provided an update on the Modernization Project work plan as of 12/31/17.



Agenda Item 3: Update on BrD/BrR Licensees (FY 2018)

3a. Product Report

Judy Tarwater presented a product license summary report developed from the Excel output from AASHTOWare Manager. The report included licenses ordered as of 01/10/18.

Item	FY16	FY17	FY18	Sponsoring Agency
Bridge Design - 120-Day Evaluation License	2	12	0	
Bridge Design Developer License	1	2	1	
Bridge Design Educational License	14	7	9	
Bridge Design Single Workstation Option	1	4	3	
Bridge Design Special Consultant Option	36	34	32	
Bridge Design Unlimited Option	17	15	16	*
Bridge Design/Rating Service Units	50	94	89	
Bridge Rating - 120-Day Evaluation License	10	23	9	
Bridge Rating Agency Sponsored Consultant Licenses	2	3	3	Illinois, Michigan, Virginia
Bridge Rating Developer License	4	5	6	
Bridge Rating Educational License	17	7	10	
Bridge Rating Single Workstation Option	17	25	38	

Bridge Rating Special Consultant Option	369	348	347	
Bridge Rating Unlimited Option	34	39	40	**
Sponsored Consultant Licenses (Bridge Rating) - No Fee	N/A	59	85	Illinois Dept of Trans
Sponsored Consultant Licenses (Bridge Rating) - No Fee	95	87	81	Michigan Dept of Trans
Sponsored Consultant Licenses (Bridge Rating) - No Fee	92	85	75	Virginia Dept of Trans
PGSuper Professional			4	KDOT and MassDOT
BridgeLink Professional			1	Idaho TD

* Mississippi DOT is new to BrD Unlimited

** Non-Member BrR Unlimited Licensees:

- + HDR
- + HNTB
- + Michael Baker International
- + Stantec Consultant Services
- + TranSystems Corporation
- + Los Angeles County Public Works

3b. Service Unit Report

Baker presented the service unit summary report.

3c. Evaluation Software Report

The current summary of BrDR software evaluations was reviewed. We are still not having much success in getting evaluation surveys back, but we are getting a few new licensees from the evaluations.

Agenda Item 4: Support and Maintenance Report

4a. Incident and Support Summary

Baker presented the Defect History Report through release 6.8. Thirty-one (31) new defects



have been added since the Task Force meeting in November 2017. The total number of defects reported were 2329. Currently, 2174 defects have been resolved; 67 defects are not reproducible; 2 defects need more information; and 86 defects are unresolved.

4b. Progress on Bug Resolution

Baker reviewed Maintenance Progress reports for the 6.8.3 release as of 01/04/19. For the 6.8.3 release, out of 213 total reported incidences, 129 have been resolved and 84 are assigned for resolution.

4c. Enhancement List Update

Baker presented an update on the Enhancement List.

Twenty-three (23) additional enhancements have been added to the BrDR Enhancement List since the last Task Force meeting. A majority of the new enhancements added to the list are from Caltrans.



Useability	BRDR-1561	Add the control option to ignore the "PS Tensile Stress" for PS bridge using LFD analysis
Useability	BRDR-1564	Truss members with deterioration defined at more than 1 location cause error in rating.
Miss Function	BRDR-1619	Develop Reinforced Concrete I section member Alternative where scheduled based rebar data and post-tensioned cable entry is allowed.
Useability	BRDR-1620	Phi factor for moment MCB PT bridges.
Useability	BRDR-1621	LLDF for One or Two Cell Box girder bridges
Useability	BRDR-1622	Limit "Lever Rule" values of One Lane LLDF to Multi Lane LLDF, since Multi Lane LLDF includes the single Lane LLDF (with MPF of 1.2)
Useability	BRDR-1623	When extending the range of applicability, limit the values to Lever Rule (LLDF)
Useability	BRDR-1624	Establish the LLDF for exterior girder using "full box" case - set to interior girder LLDF
Miss Function	BRDR-1625	Setting password for all users
Technical	BRDR-1626	Incorporate partial tension-field approach for steel bridge shear capacity.
Technical	BRDR-1627	Range of applicability for Slabs.
Output	BRDR-1628	Report Writer for Stringer-Floorbeam-Girder system
Miss Function	BRDR-1629	Earth pressure applied on Abutment walls for structures Framed into abutment should be included in the analysis
Miss Function	BRDR-1630	MCBs framed into abutments using Integral Supports
Useability	BRDR-1631	Web line analysis for all MCBs (where the web lengths are different)
Useability	BRDR-1632	Introduce advanced option of LLDF for MCB
Technical	BRDR-1633	Iterative Process when establishing RF for load dependent cases
Technical	BRDR-1634	Use of corresponding moment and shear when establishing shear rating factor
Useability	BRDR-1635	Not meeting minimum shear reinforcement area by 10%. $A_{provided}/A_{required} = 0.9$
Technical	BRDR-1636	Incorporate Moment-Curvature Approach to establish shear capacity.
Miss Function	BRDR-1637	Introduce rating factor for Bent Caps (substructure)
Miss Function	BRDR-1638	Including torsional effect for Curved bridges.
Technical	BRDR-1649	Cb calculation



BrDR-1649 – the Illinois DOT requested the Cb calculation technical enhancement to correct issues they are having with bridges being rated too low (requiring them to be posted). The code allows you to use concurrent moments for M1 and M2, while the software uses the maximums for each. This issue should be addressed sooner than later. Tim Armbrecht will forward detailed information (which was provided to ILDOT by their consultant) on this enhancement request to the Task Force.

4d. Maintenance Issues

No discussion.

Agenda Item 5: Enhancements

5a. 2018 Spec Updates

AASHTO now publishes the new Edition of the LRFD Specifications on a three year rotation. The 2017 LRFD Specifications have been included in the Eighth Edition and the 9th Edition will be published in 2020. However, interim changes will be balloted annually, and States may decide to implement those approved ballot items immediately. The MBE will continue to be published annually. Currently, users can toggle interims on and off. Todd will contact Erin Grady (AASHTO Publications) to find out the timeline on edits to the 2018 specs before the decision is made on whether or not to incorporate them into the 2018 bug fix release. MBE articles referring to the LRFD Specifications Section 5 will be inconsistent as this section is entirely rewritten in the Eighth Edition.

Baker presented the Task Force with an estimate for the development and implementation of 2017 specification approved ballot items. The COBS Executive Committee has a conference call on January 26th to discuss this item, including decisions on the timeframe for the final edits to the specifications. Todd Thompson and Judy

Tarwater have scheduled a call with Gregg Frederick and Patricia Bush on January 31 to discuss the status of BrDR being allowed to incorporate the 2017 spec updates into the June 2018 release.

5b. Culvert enhancements (missing functionality)

Dean Teal reported the following culvert missing functionality

- Report Tool – Cannot create a report like most of the other bridge types
- Cannot save culvert results to the database like most other bridges

Neither are currently included in a future work plan, no estimates are available at this time. This has been reported in JIRA under BrDR-1618.

The Task Force would like to see the same functionality for culverts as what currently exists for multi-girders.

5c. Caltrans' Latest Enhancement List

The Task Force discussed requests to include enhancements that the California DOT is interested in implementing. Paul Cooley recently had a conference call with Todd Thompson and Judy Tarwater to discuss Caltrans enhancement needs.

The Task Force discussed their decision to not incorporate any enhancements into BrDR to support the planned ability to perform regression testing between the legacy and modernized software.

Agenda Item 6: Modernization

6a. Update

Baker advised that they are currently alpha testing prestressed and reinforced concrete. They will begin testing timber in the near future using Madero to run the timber components and extracting the information from the Madero output file. Corrugated metal is ready for testing. Culvert and multi-cell box testing will



begin next week. Steel multi-girder and 3D are lagging behind.

The user Interface is on track for completion in October of 2018. The re-written substructure engine will be released with 7.0.

6b. TAG Update

Dean Teal discussed the current BrDR Modernization TAG membership and provided the Task Force with information on which users have indicated that they could be available to conduct testing. Dean is still having a hard time getting the TAG members to get engaged with the testing process.

The decision on whether or not on-site testing will be conducted in the spring of 2018 has not been made. A testing webinar will be conducted regardless of whether or not on-site testing is conducted.

Dean also provided the list BrDR TAG Members – 2018 Version 6.8.3

Testing for 6.8.4 and 7.0 testing will be intensive. The Task Force discussed whether or not the deliverables should be tested in phases or all at once. 7.0 will include the same engine code as 6.8.4 with an updated user interface.

6c. FY2020, FY2021 Enhancements

Baker presented the BrDR Modernization schedule for Phases 1 through 3. The schedule documents the deliverables and current status of the effort.

Baker also presented a two year work plan for enhancement work to be completed in Fiscal Years 2020 and 2021. The enhancements presented included agency requested enhancements and Tier 1 Top 30 enhancements. The Task Force walked through the list and

identified which enhancements will be included in version 7.1. Baker plans to have the final 7.1 work plan delivered to the Task Force in the April 2018 timeframe for execution in FY2018.

The Task Force made the decision to include the following enhancements in BrDR release 7.1.



Include on One Year WorkPlan	Enhancement	Requested By
Y	P/S Design Tool Phase 2	TF
Y	Steel Design Tool	TF
	User Funded:	
7.0	Rating Tool - Culvert	ID
7.0	Rating Tool - Floor system - LFR	IL
7.0	Rating Tool - LRFR	VA, IN
7.0	Rating Tool - LFR MCB	MS
Y	LLDF for one or two cell box girder bridges	CA [3]
Y	Limiting lever rule on single lane	CA [4]
Y	When extending range of app limit the values to lever rule	CA [5]
Y	Establish LLDF using full box case to set Int. LLDF	CA[7]
	User Requested:	
N	Rating Tool - Permit Analysis Settings	Beta TAG
Y	Difference in skew between adj supports override	CA [10]
N	Incorporate moment-curvature approach for shear capacity	CA [22]
N	Incorporate partial tension field approach for steel bridge shear capacity	CA [9]
Y	Introduce RF for bent caps (substructure)	CA [24]
N	Introduce advanced option of LLDF for MCB	CA [17]
N	Iterative process when establishing RF for load dependent cases	CA [18]
Y	MCB superstructure dynamically linked to substructure	CA [15]
N	Minimum shear A_v provided/ A_v required = 0.9	CA [23]
N	Multiple post tension cable path for MCB	CA [19]
Y	Report writer for stringer-floorbeam-girder system	CA [12]
Y	Set password for all users	CA [8]
Y	Update truss to handle both LFR and LRFR	CA [21]
Y	Use of corresponding μ or V when establishing V RF	CA [20]
Y	User defined load distribution (DC2) to MCB webs for sound walls	CA [6]
Y	Web line analysis for all MCB's where web lengths differ	CA [16]
Y	BrDRSUP-1627 Range of applicability for slabs	CA [11]
Y	BrDRSUP-1619 Develop RC I-section member alt, Rebar w/PT	CA [1]
Y	BrDRSUP-1620 Phi factor for moment MCB PT	CA [2]
Y	BrDRSUP-1629 Earth pressure on abut walls for structures framed into abuts	CA [13]
Y	BrDRSUP-1630 MCB's framed into abuts using integral supports	CA [14]
N	BrDRSUP-1638 Include torsional effect for curved bridges	CA [25]
N	BrDRSUP-1306 (no estimate)	
	Tier 1 Top 30 Enhancements:	



Include on One Year WorkPlan	Enhancement	Requested By
Y	1 BRDRSUP-695 Analyze local web deformations	TAG
Y	2 BRDRSUP-1068 Model varying number of girders	TAG
Y	3 BRDRSUP-1029 LLDF for steel beam-timber deck	TAG
Y	4 VI 9313 Steel channel for exterior girders	TAG
Y	5 BRDRSUP-581 Hinges in girder floort systems	TAG
Y	6 BRDRSUP-641 Model section loss in P/S girders	TAG
Y	7 BRDRSUP-728 Girder profile schematic for steelbuilt-up members	TAG
N	8 BRDRSUP-612 Dog-legged framing plan	TAG
Y	9 VI 11366 Cover plates on both surfaces of flange	TAG
Y	10 BRDRSUP-1444 Slab section schematic including reinforcing steel	TAG
Y	11 BRDRSUP-1431 Show PS strands on girder profile schematic	TAG
Y	12 BRDRSUP-1436 Option to account for 100% section loss	TAG
Y	13 BRDRSUP-97 Allow reduction due to low adtt	TAG
Y	14 BRDRSUP-732 Rate culverts with variable thickness slabs and walls	TAG
Y	15 BRDRSUP-1435 Schematic for cross-section based members	TAG
N	16 VI 8179 Flr System - link stringer mbr to an identical stringer mbr	TAG
N	17 BRDRSUP-1426 Wizard-based user interface (SW-8a)	TAG
N	18 BRDRSUP-1437 Show bent and hook bars in reinforcement schematic	TAG
N	19 VI 8039 Cover plates with schedulr based input - steel girders	TAG
N	20 BRDRSUP-1422 Store standard strand pattern with library beam shape	TAG
N	22 BRDRSUP-1114 Curved ratings of splayed girders	TAG
N	23 BRDRSUP-1113 Curved girder eccentric points of curvature (requires 1114)	TAG
N	24 VI 12764 Custom cross-section. Need to investigate	TAG
N	25 BRDRSUP-613 Post-tensioned precast RC I-beams	TAG
N	26 BRDRSUP-1299 Ability to enter multiple layers of wearing surface	TAG
N	27 BRDRSUP-1463 Create your own wizard - Need to investigate	TAG
N	28 VI 8989 Schedule-based reinforcement input for concrete I girder	TAG
N	29 VI 12352 Culvert - user defined DL	TAG
N	30 VI 8180 Flr System - link floorbeam mbr to an identical floorbeam mbr	TAG
Task Force Enhancements:		
Y	Timber Engine	TF
N	Truss UI	TF
Y	Reports	TF



Baker advised that they have the development capacity to also support the development of the following Rating Tool Enhancements for release concurrent with BrDR version 7.0. Work on these enhancements could begin in the summer of 2018. These enhancements will be incorporated into the BrDR Modernization Work Plan via a contract mod.

- **Mississippi DOT (Justin Walker)** – Addition of Post Tensioned Boxes / Multicell concrete box girders
- **Virginia DOT (Jonathan Mallard), Indiana DOT (Anne Rearick), Louisiana DOTD (Dana Feng)** – Addition of LRFR
- **Illinois DOT (Phillip Litchfield)** – (\$105,000) Addition of LFR Floor Systems
- **Idaho TD (Shanon Murgoitio)** – (\$62,000) Addition of Concrete Box Culverts (LFR)

The Prestressed Design Tool Phase 2 could technically be incorporated into release 7.0; however, the user community seems to be overwhelming in favor of incorporating enhancements to the Rating Tool sooner than later.

Agenda Item 7: FY2019 – Finalize Documentation

7a. Catalog

License fees for member agencies will remain the same. The Special Consultant option licenses will increase to \$5,000. Beginning with FY2020, annual license fees will be increased 3% per year across the board.

Language on the sunset of the pre-modernized release will be included in the FY2019 catalog to notify the users that June of 2019 is the first release of the modernized product and June of 2020 will be the last release of the legacy BrDR. Support for the legacy product will end in June 2021. Consensus is not to put an expiration date on the legacy software.

License Type	2018	2019
BrD Unlimited	\$ 37,500	\$ 37,500
BrR Unlimited	\$ 37,500	\$ 37,500
BrD Workstation (1)	\$ 10,000	\$ 10,000
BrD Workstation (2+)	\$ 8,500	\$ 8,500
BrR Workstation (1)	\$ 10,000	\$ 10,000
BrR Workstation (2+)	\$ 8,500	\$ 8,500
BrD Consultant	\$ 4,600	\$ 5,000
BrR Consultant	\$ 4,600	\$ 5,000
BrD Agency Sponsored	\$ 90,000	\$ 90,000
BrR Agency Sponsored	\$ 90,000	\$ 90,000
Developers	\$ 500	\$ 500

Baker has been requested to provide to Judy Tarwater by February 2, 2018, updated catalog language related to the functionality delivered in the latest version of BrDR as well as technical specification updates for hardware/software minimum and recommended requirements to run the software.

7b. FY2019 MSE Work Plan

Baker presented the proposed FY2019 MSE Work Plan.

The Task Force agreed with the proposed budget and approved the MSE Work Plan as-is.

Agenda Item 8: Miscellaneous Topics

8a. BrDR Modernization Quarterly Reports (for Ohio)

Quarterly BrDR Modernization Reports have been requested by a couple of agencies participating in the BrDR Modernization Project. Baker provided the following status information (as of January 2018).

Work Completed to Date

User interface: Mockups of the modernized UI have been prepared and approved. The framework for the Bridge Workspace has been completed. The



windows are being developed based on the approved mockups.

Engine: The analytical engine is being developed based on the framework that was developed for the Prestressed Design Tool for the multi-girder structure types. For other structure types the legacy engines are being directly converted.

Work Remaining

User Interface: All remaining windows are being developed based on the mockups.

Engine: Work continues on the conversion of the analytical modules.

Percent Complete

User Interface: 51%

Engine: 55%

Estimated Completion Date

User Interface: June 2019

Engine: June 2018

The Task Force made the decision to include additional details on specific activities and accomplishments under the BrDR Modernization Project including a brief mention of whether or not the project/deliverable is on schedule.

8b. BrDR JIRA Users (AI 2017-Br-013)

Baker reported on BrDR JIRA account users. BrDR currently has 174 BrDR JIRA users, 158 of which are active users. Of the 158 BrDR JIRA users 77 have been active in the last 180 days, 81 have not been active in the last 180 days.

8c. BrR Demonstration and Evaluation for Alaska DTPF

Judy Tarwater discussed the status on the Alaska DTPF Bridge Rating demonstration and evaluation request with Larry Owen via telephone on January 16, 2018

Agenda Item 9: Third Party Issues

9a. Long-term Strategy

Our third party discussions have mostly been on hold because of the required changes to the API for version 7.0. Now that we are nearing the release of 7.0, the full release of the modernized software, we began discussing possible third party interests.

- Jeff has an outstanding action item to contact Simon (NSBA's steel bridge design software) to see what level of interest they have in becoming a third party software.
- Merlin Dash (Best Center's steel design software) had contacted us a few years ago to discuss third party options. They decided to hold off until the modernization project is complete. Todd will reach out and update them as to our progress.
- Brian Goodrich, Bridge Tech, contacted Dean to see how many states are still using the Brass engine in BrR.

Agenda Item 10: User Group

10a. Summary Minutes from November Meeting

The summary minutes for the November BrDR Task Force meeting in Santa Fe, NM were provided. Judy Tarwater will post these on the SharePoint site for Task Force review and comment. Once in final form, the summary minutes will be forwarded to David Schroeder (Secretary RADBUG) for posting on the RADBUG website.

10b. Follow-up Actions from the 2017 RADBUG Meeting

The Task Force further discussed the take aways from the User Group meeting, including:

- The Prestressed Tool is being delivered with both BrD and BrR. We want to make consultants aware of this. This could be accomplished via some extra verbiage



included in the email communique which delivers their license key.

- Use of a technology such as WebEx to allow users to view the slides real time on their laptops or phone to view the presentations during the meeting. Or load the presentations real-time on the RADBUG website so attendees can down-load during the meeting.

Agenda Item 11: Work Plans

11a. Planning Estimates (Summary of Estimates)

The Task Force discussed enhancement estimates in depth under agenda item 6c, and made decisions on which enhancements will be included in future releases of the product.

11b. Future Work Plans

The scope and budget for the FY19 MSE work plan was discussed under agenda item 7b. Rating Tool enhancements will be included in the BrDR Modernization Work Plan via a contract mod. These enhancements will be delivered concurrent with release 7.0 (discussed under agenda item 6c).

BrDR enhancements to be included in release 7.1 were also discussed under agenda item 6c.

The Task Force discussed the future of supporting the integrated database for transferring data between BrDR and BrM. The upcoming RIPI project for transferring data will replace the need for the integrated database. It was decided to sunset supporting the integrated database.

Agenda Item 12: FHWA Update

Tom Saad provided the following report:

FHWA to host two additional State Load Rating Program Peer Exchanges

The FHWA plans to host load rating program peer exchanges for the Northwest States in 2018

and the Southwest States in 2019. The exchanges allow the opportunity for load rating specialists from the State Highway Agencies to share best practices in bridge load rating, posting and permitting and to discuss current issues of high priority to load rating engineers. The FHWA has hosted 4 exchanges in the past 4 years with 34 States participating. The next two exchanges will allow participants from 18 remaining States to address the load rating and permitting challenges they face and to discuss procedures to address those challenges. FHWA will provide travel funding for one participant from each State, and look forward to meeting with the Northwest States this summer.

FHWA NHI Load Rating Training and Bridge Design and Analysis Reference Manuals

The South Dakota DOT recently hosted the 4-day National Highway Institute training course 130092, Load and Resistance Factor Rating of Highway Bridges, and the Virginia DOT is hosting the course in April. If you have a need to train new and existing staff in load rating, you can find current course offerings at

<https://www.nhi.fhwa.dot.gov/home.aspx>.

Also, FHWA has recently made several NHI bridge design and analysis course reference manuals available for free download. In the past, hardcopies of these documents were provided to attendees of the training sessions, or for a nominal fee through the NHI website. Now, reference manuals for NHI courses 130081, *LRFD for Highway Bridge Superstructure Design*, 130093, *Seismic Design of Highway Bridges*, 130102, *Engineering for Structural Stability in Bridge Construction* and 130122, *Design and Evaluation of Steel Bridges for Fatigue and Fracture* are available at

<https://www.fhwa.dot.gov/bridge/>.



Trombino withdraws name for consideration as FHWA Administrator

Former Iowa Department of Transportation Director Paul Trombino III has asked President Trump to withdraw his name to serve as the FHWA Administrator, citing his desire to spend time with family. As the Administration seeks to appoint a new nominee, Brandye Hendrikson, FHWA Deputy Administrator, will continue to serve as Acting Administrator.

FHWA HIBS fills Seismic Specialist position

Dr. Jia-Dzwan (Jerry) Shen has been hired by FHWA's Office of Bridges and Structures (HIBS) to fill the *Senior Bridge Engineer - Seismic* position on the Structural Engineering Team. Jerry was previously a Program Manager for the company GENEX, where he provided contract services to FHWA for lab support at the Turner Fairbank Highway Research Center. He has been working closely with FHWA personnel on site at TFHRC for over 10 years, and has been instrumental in advancing many of the innovative and ground breaking research efforts in the areas of seismic, multi hazard, aerodynamic, and hydraulic performance of bridges and other structures. Jerry has a Bachelor's Degree from National Taiwan Univ. and Master's and Doctorate from the State Univ. of New York at Buffalo. Jerry's can be reached at jerry.shen@dot.gov.

Following Tom's update, the Task Force discussed the possibility of getting BrD and BrR mentioned in the appropriate NHI courses. Tom asked if we have the 10 MBE example bridges modeled in BrR? Baker thought they may be part of their testing suite, but he would check.

Agenda Item 13: Five Year Projection for BrDR

Judy Tarwater presented the updated five year projection for BrDR with FY2018 license revenue committed through 11/30/17.

Agenda Item 14: Licensing Issues

14a. Third-Party Add-Ons

No discussion.

14b. Future of Bundling Modules (Post-Modernization)

Tom asked about offering the Counties a reduced license fee based on their smaller inventory of bridges. The Task Force discussed in depth how we could set up a licensing model to help out the counties and local agencies. Baker suggested that we provide a free license for the first two years to get their inventories modeled. We will continue this discussion at the April meeting.

14c. Licensing Internationally

Judy was recently contacted by AECOM Romania (Dan Mihaila) seeking information on AASHTOWare Bridge Rating licenses. Specifically he wanted information on whether or not the licenses could be installed as virtual licenses (no), whether or not a software license could be transferred from one workstation to another, and licensing fee options. He advised that AECOM offices in Romania, Spain, France, etc. are looking at doing work for U.S. state departments of transportation and specifically advised that a DOT project could potentially be initiated in one of their offices in Romania then later transferred to an AECOM office in Spain, for example. He wanted to be sure that a workstation license could be installed and then removed and re-installed on another workstation. His call was for information gathering. He doesn't have a handle on what kind or how many licenses they will need but he now has the information on licensing and how the software installs and the ability to move a license from one workstation to another.

AECOM is a U.S. based company and the BrDR software is delivered with a de-activation date to



disable the software upon expiration of the license.

The Task Force agreed that licensing BrDR to AECOM offices outside of the United States poses little risk and they are agreeable to allowing these offices to license the software.

Agenda Item 15: Marketing Activities

Discussed during the joint Task Force meeting. Todd Thompson will develop a quarterly update to be sent to the BrDR community following this meeting.

Agenda Item 16: Review Action Item list from this meeting

Jeff Olsen read the action items recorded during the meeting.

Agenda Item 17: Task Force Executive Session (as needed)

No Executive Session was held. The meeting adjourned Wednesday, January 24, 2018 at 3:00 pm.

