DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 17 13—Laminated Veneer Lumber

REPORT HOLDER:
BOISE CASCADE WOOD PRODUCTS, LLC

EVALUATION SUBJECT:
VERSA-LAM® LAMINATED VENEER LUMBER

1.0 EVALUATION SCOPE
Compliance with the following codes:

For evaluation for compliance with codes adopted by the Los Angeles Department of Building and Safety (LADBS), see ESR-1040 LABC and LARC Supplement.

Properties evaluated:
- Structural
- Fire resistance
- Fireblocking material

2.0 USES
VERSA-LAM® Laminated Veneer Lumber (LVL) is used for structural applications such as beams, headers, joists, rafters, wall studs and rim joists.

3.0 DESCRIPTION
VERSA-LAM® LVL is structural composite lumber products complying with ASTM D5456 and is manufactured with the wood fibers primarily oriented parallel to the length of the member, such that the veneers are vertical when the member is installed in its primary application (joist orientation). Qualified adhesives, veneer species and veneer grades are as specified in the approved Quality Control Manual.

VERSA-LAM® LVL is available in various grades as indicated in Table 1. VERSA-LAM® LVL is produced in thicknesses from minimum 1 inch (25.4 mm) up to 7 inches (178 mm), with depths up to 48 inches (1219 mm) and lengths up to 66 feet (20.1 m).

VERSA-LAM® LVL is also distributed under the proprietary name of VERSA-STUD®, and is manufactured to match commonly available solid-sawn lumber sizes.

4.0 DESIGN AND INSTALLATION

4.1 General:
The design provisions for structural composite lumber in the ANSI/AWC National Design Specification® for Wood Construction (NDS) are applicable to VERSA-LAM® LVL unless otherwise noted in this report. Reference design values for dry conditions of use of VERSA-LAM® LVL are indicated in Table 1.

4.2 Connections:
The design of connections for VERSA-LAM® LVL must be in accordance with the NDS as for solid wood members using an equivalent specific gravity for nail or bolt design for dry-use conditions given in Table 4. Allowable nail spacing is indicated in Table 3.

4.3 Fire Blocking:
VERSA-LAM® LVL may be substituted for solid-sawn lumber fireblocking provided the minimum sizes of VERSA-LAM® LVL, as indicated in this report, are as specified by the applicable code for solid-sawn material.

4.4 Rim Board:
For the purposes of this evaluation report, rim boards are defined as continuously supported structural members (except as noted in the last sentence of Section 4.4 of this report), located at the joist elevation either perpendicular to, or parallel to, the joist framing, that are the full depth of the joist space and that are used for the following purposes:

1. Transfer, from above to below, of vertical loads at the rim board location. Allowable vertical loads are noted in Table 2.
2. Providing diaphragm attachment (sheathing to top edge of rim board).
3. Transferring in-plane lateral loads from the diaphragm to the wall plate below.
4. Providing lateral support to the joist or rafter (resistance against rotation) through attachments to the joist or rafter.
5. Providing closure for ends of joists or rafters.
6. Providing an attachment base for siding or exterior deck ledger.
Allowable vertical and lateral load transfer capacities for VERSA-LAM® LVL are provided in Table 2. Rim board must be installed in accordance with the prescriptive provisions of the applicable code. Design of rim board installed over wall openings must be based on the reference design values noted in Table 1.

4.5 Calculated Fire Resistance:

For applications under the 2018, 2015, 2012 and 2009 IBC, the fire resistance of exposed VERSA-LAM® LVL members may be calculated in accordance with Chapter 16 of the NDS.

4.6 Wall Studs:

4.6.1 General: VERSA-LAM® LVL may be used as wall stud material in accordance with the prescriptive requirements in Section 2308.5 of the 2018 and 2015 IBC, Section 2308.9 of the 2012, 2009 and 2006 IBC and Section R602 of the IRC, subject to the following conditions:

1. VERSA-LAM® LVL used as wall studs must have a thickness of 11/2 inches (38 mm) or greater.

2. Cutting, notching and boring of nominally 2-by-4 and 2-by-6 VERSA-LAM® LVL stud permits is in accordance with Sections 2308.5.9 and 2308.5.10 of the 2018 and 2015 IBC, Sections 2308.9.10 and 2308.9.11 of the 2012, 2009 and 2006 IBC and Section R602.6 of the IRC.

Allowable shear values for nailed wood structural panel shear walls utilizing VERSA-LAM® LVL framing members may be determined using Section 2306.3 of the 2018, 2015 and 2012 IBC, Table 2306.3 of the 2009 IBC or Table 2306.4.1 of the 2006 IBC, for shear walls with framing of Douglas fir-Larch, subject to the following conditions:

1. A double VERSA-LAM® LVL stud must be used at adjoining wood structural panel edges. Studs must be stitch nailed together with two staggered rows of 0.148 inch (3.8 mm) diameter (10d common) nails spaced at 8 inches on center in each row.

2. Nails at panel edges must be staggered along two nailing lines spaced approximately 11/4 inch (12.7 mm) apart. Nails at panel edges must also be at least 3/4 inch (9.5 mm) from the edges of the VERSA-LAM® LVL stud and the wood structural panel.

3. The tabulated shear values for nailed wood structural panel shear walls using 8d or 10d box or common nails at a panel edge nail spacing of 2 inches (51 mm) must be multiplied by a factor of 0.90.

4. The tabulated shear values for nailed wood structural panel shear walls using 10d box or common nails at a panel edge nail spacing of 3 inches (76 mm) must be multiplied by a factor of 0.90.

4.6.2 Fire-resistance-rated Wall Construction: VERSA-LAM® LVL is permitted to be used in fire-resistance-rated wall construction as follows:

1. For conventional light-frame construction, VERSA-LAM® LVL is permitted to be used as a direct replacement for solid-sawn lumber in any 1-hour fire-resistance-rated wall assembly listed in Table 721.1(2) of the 2018, 2015, 2012 IBC, and Table 720.1(2) of the 2009 and 2006 IBC, provided the following conditions are met:
   a. The VERSA-LAM® LVL studs have a minimum depth of 51/2 inches (140 mm) (nominal 2-by-6).
   b. Tape and joint compound must be applied to fastener heads and gypsum wallboard joints on the exposed surface(s).

2. For engineered, load-bearing wall construction, VERSA-LAM® LVL is permitted to be used in 1-hour fire-resistance-rated wall assemblies provided the following conditions are met:
   a. The VERSA-LAM® LVL studs have a minimum depth of 51/2 inches (140 mm) (nominal 2-by-6).
   b. Studs must be spaced no more than 16 inches (406 mm) on center.
   c. Minimum 5/8-inch (15.9 mm) Type X gypsum wallboard must be attached with 21/2-inch-long (57 mm) Type S drywall screws spaced 7 inches (178 mm) on center along each stud.
   d. Tape and joint compound must be applied to fastener heads and gypsum wallboard joints on the exposed surface(s).
   e. The design axial compressive stress within the studs must not exceed the least of the following:
      i. 525 psi (3620 kPa).
      ii. 0.46Fcv, where Fcv is the compression design value parallel-to-grain, adjusted by all applicable adjustment factors in accordance with the NDS, including the column stability factor, CF.
      iii. 0.46 Fu, where Fu is calculated in accordance with the NDS assuming a slenderness ratio, l0/d, of 21.

4.7 Installation:

VERSA-LAM® LVL products must comply with this report and the wood construction requirements noted in the applicable code, as indicated in this report.

5.0 CONDITIONS OF USE

The VERSA-LAM® LVL products described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 VERSA-LAM® LVL products are manufactured by Boise Cascade Wood Products, LLC, in White City, Oregon, and Alexandria, Louisiana, under a quality-control program with inspections by ICC-ES and APA—The Engineered Wood Association (AA-649).

5.2 The service conditions for the VERSA-LAM® LVL products described in this report must be a covered, dry condition of use. Dry conditions of use are those conditions of use represented by sawn lumber at which the moisture content is less than 16 percent.

5.3 Calculations and details for specific applications, demonstrating that the use of VERSA-LAM® LVL products comply with this report, must be submitted to the code official upon request. The documents in question must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

5.4 Duration-of-load adjustments, as provided for wood members and their connections, may be applied in accordance with the limitations specified in the applicable code, as indicated in this report.

5.5 The use of treatments on the products listed in this report, such as preservatives and fire retardants, is outside the scope of this report.

5.6 Cutting and notching of VERSA-LAM® LVL products is outside the scope of this report except when used as wall studs.
6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with ICC-ES Acceptance Criteria for Structural Wood-based Products (AC47), dated June 2017 (editorially revised March 2018).

6.2 Data in accordance with ICC-ES Acceptance Criteria for Rim Board Products (AC124), dated October 2016 (editorially revised March 2018).


6.4 Reports of fire tests conducted in accordance with ASTM E119.

7.0 IDENTIFICATION

7.1 VERSA-LAM® LVL products are identified with a stamp noting the manufacturer’s name (Boise Cascade) and plant location, the product name (including MOE, design flexural stress and design axial tensile stress, as applicable), the species, the date of manufacture, the evaluation report number (ESR-1040), and the name of the inspection agency (APA-The Engineered Wood Association). Unless otherwise identified, all products from White City, Oregon, are manufactured from primarily Douglas fir and all products from Alexandria, Louisiana, are manufactured from primarily southern yellow pine.

7.2 The report holder’s contact information is the following:

BOISE CASCADE WOOD PRODUCTS, LLC
POST OFFICE BOX 2400
WHITE CITY, OREGON 97503-0400
(541) 826-0200
www.bc.com/wood/ewp
### TABLE 1—REFERENCE DESIGN VALUES FOR VERSA-LAM® LVL (pounds per square inch)\(^1,2\)

<table>
<thead>
<tr>
<th>PRODUCT GRADE(^5)</th>
<th>MOE(^6) E (x10(^6) psi)</th>
<th>PRODUCT GRADE(^7)</th>
<th>MOE(^6) E (x10(^6) psi)</th>
<th>TRUE E</th>
<th>APPARENT E</th>
<th>FLEXURAL STRESS, Fb</th>
<th>TENSION PARALLEL TO GRAIN(^4), Ft</th>
<th>COMP. PARALLEL TO GRAIN, Fc</th>
<th>COMPRESSION PERPENDICULAR TO GRAIN, Fc⊥</th>
<th>HORIZONTAL SHEAR, Fv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joist 3 Plank Perp. to Narrow Face (Plank)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.4E 1600/1100</td>
<td>1.4</td>
<td>1.4E 1600(^5)</td>
<td>1.3</td>
<td>1600</td>
<td>1600</td>
<td>1100</td>
<td>2500</td>
<td>450</td>
<td>525</td>
<td>150</td>
</tr>
<tr>
<td>1.4E 1750/1100</td>
<td>1.4</td>
<td>1.4E 1750(^5)</td>
<td>1.3</td>
<td>1750</td>
<td>1600</td>
<td>1100</td>
<td>2500</td>
<td>450</td>
<td>525</td>
<td>150</td>
</tr>
<tr>
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<td>1.4</td>
<td>1800</td>
<td>1800</td>
<td>1100</td>
<td>2500</td>
<td>450</td>
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<td>150</td>
</tr>
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<td>1.5E 1950</td>
<td>1.5</td>
<td>1.4 1950/1100</td>
<td>1.4</td>
<td>1950</td>
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<td>150</td>
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<td>1.6E 2050</td>
<td>1.6</td>
<td>1.5 2050/1250</td>
<td>1.5</td>
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<td>2250</td>
<td>2250</td>
<td>1400</td>
<td>2500</td>
<td>450</td>
<td>525</td>
<td>150</td>
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<td>1.6 2450/1500</td>
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<td>2450</td>
<td>1500</td>
<td>2500</td>
<td>450</td>
<td>525</td>
<td>150</td>
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<tr>
<td>1.8E 2650</td>
<td>1.8</td>
<td>1.7 2650/1650</td>
<td>1.8</td>
<td>2650</td>
<td>2650</td>
<td>1650</td>
<td>3000</td>
<td>450</td>
<td>750</td>
<td>190</td>
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<td>1.9E 2850</td>
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<td>1.8 2850/1825</td>
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<td>2850</td>
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<td>1825</td>
<td>3000</td>
<td>450</td>
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<td>1.9 3050/2150</td>
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<td>2.1 3450/2700</td>
<td>2.2</td>
<td>3450</td>
<td>3450</td>
<td>2700</td>
<td>3000</td>
<td>450</td>
<td>750</td>
<td>190</td>
</tr>
</tbody>
</table>

For SI: 1 psi=0.00689 MPa.

1Reference design values are based on dry conditions of use where the in-service moisture content of the VERSA-LAM® LVL is less than 16 percent.
2Reference design values must be adjusted, as applicable, in accordance with Section 8.3 of the NDS.
3The tabulated reference flexural stress, Fb, is for VERSA-LAM® LVL with a 12-inch depth. For other depths, multiply by the volume factor Cv = (12/d)\(^{1/9}\), where d is the member depth in inches.
4The tabulated reference tension stress, Ft, is for VERSA-LAM® LVL with a 4-foot length. For lengths longer than 4 feet, multiply Ft by the length factor of (4/L)\(^{1/8}\), where L is the member length in feet.
5The reference modulus of elasticity for beam stability and column stability calculations, Emin, must be calculated using E\(_{\text{apparent}}\) in accordance with Appendix D of the NDS. When calculating Emin, the coefficient of variation of modulus of elasticity, COVE, may be taken as 0.10.
6Values are true E (E\(_{\text{true}}\)).
7Values are apparent E (E\(_{\text{apparent}}\)).
8Product may also be labeled according to both Fb and Ft. Example: 2.0 2800 is equivalent to 2.0 2800/2150.
9or uniformly loaded, simple span beams, deflection is calculated as follows:

\[
D_{\text{true}} = \frac{270WL^4}{E_{\text{true}}bd^3} \quad D_{\text{apparent}} = \frac{270WL^4}{E_{\text{apparent}}bd^3}
\]

where:
- D = Deflection (inches)
- W = Uniform load (plf)
- L = Span (feet)
- E = Modulus of elasticity (psi)
- b = Beam width (inches)
- d = Beam depth (inches)
### TABLE 2—VERSA-LAM® LVL ALLOWABLE RIM BOARD DESIGN CAPACITIES

<table>
<thead>
<tr>
<th>MODULUS OF ELASTICITY, E (x10^6 psi)</th>
<th>MINIMUM THICKNESS (inches)</th>
<th>ALLOWABLE VERTICAL LOAD</th>
<th>LATERAL CAPACITY</th>
<th>CONTAINS CROSS-PLY VENEER</th>
</tr>
</thead>
<tbody>
<tr>
<td>True</td>
<td>Apparent</td>
<td>Distributed Load (lb/ft)</td>
<td>Concentrated Load (3 1/2 in. Min. Width) (lb)</td>
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</tr>
<tr>
<td>1.4 – 1.7</td>
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<tr>
<td>1</td>
<td>2000</td>
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<td>190</td>
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<td>5600+</td>
<td>4600</td>
<td>4450</td>
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<td>1.8 – 2.3</td>
<td>1.7 - 2.2</td>
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<td></td>
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<td>4250</td>
<td>3700</td>
<td>3700</td>
<td>3500</td>
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<tr>
<td>21/16</td>
<td>5450</td>
<td>4300</td>
<td>4300</td>
<td>3900</td>
</tr>
<tr>
<td>21/16</td>
<td>5700</td>
<td>4300</td>
<td>4300</td>
<td>3900</td>
</tr>
<tr>
<td>21/4</td>
<td>5700</td>
<td>4300</td>
<td>4300</td>
<td>3900</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm, 1 lb = 4.4 N, 1 lb/ft = 0.0146 kN/m.

1 Allowable loads given in this table are not permitted to be increased by the load duration factor, Cc.

2 d = member depth (inches).

3 The lateral capacity (in-plane shear) is as permitted in the applicable code for solid-sawn lumber framing in horizontal wood diaphragms with nominally 2-inch-thick framing.

4 VERSA-LAM® LVL used as rim joist may be substituted for solid-sawn framing in horizontal wood diaphragms as shown in Tables 4.2A, 4.2B and 4.2C of the 2015 ANSI/AWC SDPWS, Table 2306.2.1(1) of the 2009 IBC and Table 2306.3.1 of the 2006 IBC (maximum horizontal shear values must be limited as noted).

5 Toe-nailed connections are not limited by the 150 plf lateral load capacity noted for Seismic Design Categories D, E, and F in Section 4.1.7 of the 2015 ANSI/AWC SDPWS and Section 2305.14 of the 2006 IBC.

6 See Table 3 for minimum nail spacing requirements.

7 The applicable depth range is between 16 inches and 24 inches for the indicated values corresponding to 1 1/2 inch-thick product with cross-ply veneers.

### TABLE 3—ALLOWABLE NAIL SPACING FOR VERSA-LAM® LVL (inches)

<table>
<thead>
<tr>
<th>CONNECTOR SIZE</th>
<th>NAILS PARALLEL TO THE GLUE LINE</th>
<th>NAILS PERP. TO THE GLUE LINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>size</td>
<td>Minimum Thickness 1 inch</td>
<td>Minimum Thickness 11/4 inches</td>
</tr>
<tr>
<td></td>
<td>o.c.</td>
<td>End</td>
</tr>
<tr>
<td>8d box</td>
<td>3</td>
<td>1 1/2</td>
</tr>
<tr>
<td>8d common</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>10d &amp; 12d box</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>16d box</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>10d &amp; 12d common</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>16d sinker</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>16d common</td>
<td>6</td>
<td>4</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm.

1 Spacing requirements and maximum nail size for panel edge nailing of wall sheathing at adjoining panels must also be in accordance with Section 4.6.

2 Edge distances must be sufficient to prevent splitting.

3 For multiple rows of fasteners, the rows must be offset 1/4 inch or more from each other, equally spaced from the centerline of the VERSA-LAM® LVL member and staggered.

4 End refers to the minimum distance between the nail and the end(s) of the piece(s) being connected.
### TABLE 4—EQUIVALENT SPECIFIC GRAVITIES FOR CONNECTOR DESIGN

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>MODULUS OF ELASTICITY, E (x10^6 psi)</th>
<th>NAILS</th>
<th>BOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lateral</td>
<td>Lateral</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Installed into Wide Face</td>
<td>Installed into Narrow Face</td>
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<tr>
<td></td>
<td>installed into Wide Face</td>
<td>Loaded Parallel to Length</td>
<td>Loaded Perpendicular to Length</td>
</tr>
<tr>
<td></td>
<td>installed into Narrow Face</td>
<td>Loaded Parallel to Length</td>
<td>Loaded Perpendicular to Length</td>
</tr>
<tr>
<td>VERSA-LAM®</td>
<td>1.3 – 2.3</td>
<td>0.50</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1Values are true E (E<sub>true</sub> or apparent E (E<sub>apparent</sub>).

### DISCLAIMER
APA Product Report® is a trademark of APA – The Engineered Wood Association, Tacoma, Washington. ICC-ES Evaluation Report is a trademark of ICC Evaluation Service, LLC (ICC-ES). The information contained herein is based on the product evaluation in accordance with the references noted in this report. Neither ICC-ES, nor APA or its members make any warranty, expressed or implied, or assume any legal liability or responsibility for the use, application of, and/or reference to opinions, findings, conclusions, or recommendations included in this report. The joint ICC-ES/APA Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. Consult the local jurisdiction or design professional to assure compliance with code, construction, and performance requirements. Because neither APA, nor ICC-ES, has any control over quality of workmanship or the conditions under which engineered wood products are used, it cannot accept responsibility for product performance or designs as actually constructed.
1.0 REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that VERSA-LAM® laminated veneer lumber, described in ICC-ES evaluation report ESR-1040, has also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:
- 2020 City of Los Angeles Building Code (LABC)
- 2020 City of Los Angeles Residential Code (LARC)

2.0 CONCLUSIONS

The VERSA-LAM® laminated veneer lumber, described in Sections 2.0 through 7.0 of the evaluation report ESR-1040, complies with the LABC Chapter 23, and the LARC, and is subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The VERSA-LAM® laminated veneer lumber, described in this evaluation report supplement, must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-1040.
- The design, installation, conditions of use and identification are in accordance with the 2018 International Building Code® (IBC) and 2018 International Residential Code® (IRC) provisions noted in the evaluation report ESR-1040, as applicable.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- Cutting, notching and boring of members used as wall studs in accordance with Section 4.5.1 of the evaluation report must also comply with the additional requirements in the City of Los Angeles Department of Building and Safety Information Bulletin P/BC 2020-007.

This supplement expires concurrently with the evaluation report, reissued September 2019 and revised March 2020.