

CERTIFICATE OF CONFORMITY

1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. Certificate No: FM18US0307X

3. Equipment: Load cell, models RL260FD, RL42018A, RL1218A, RL26018A, RL9018SS, RL32018, RL32018S, RL32018S-HE, RL32018S-P, RL32218S-HE, RL32019S-HE, RL32018S-T, RL32022, RL32022-S, RL72019SS, RL75058-LP, RL75058S-LP, RL72020, RL72020SS, RL77032, RL77032SS, RL77032SS-HE, RL50225, RL82021, RL82025, RL26001A, RL20025A, RL20025SS
(Type Reference and Name)

4. Name of Listing Company: Rice Lake Weighing Systems

5. Address of Listing Company: 230 West Coleman Street, Rice Lake, Wisconsin 54868, United States of America

6. The examination and test results are recorded in confidential report number:

PR452242 dated 20th December 2018

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3610:2018, FM 3810:2018, ANSI/UL 60079-0:2013, ANSI/UL 60079-11:2014, ANSI/IEC 60529:2004

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Intrinsically Safe for Class I, II and III, Division 1, Groups A, B, C, D, E, F and G hazardous (classified) locations, indoors and outdoors, with an ambient temperature rating of T4 for $-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$,

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

17 February 2026

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

F 347 (Jul 24)



SCHEDULE

US Certificate of Conformity No: FM18US0307X

FM Approvals

IP66, IP67 or IP68, depending on the model.

11. The marking of the equipment shall include:

Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; T4 for $-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$;

12. **Description of Equipment:**

General – All of the load cells are transducers that create an electrical signal whose magnitude is directly proportional to the force applied. Electrical components are inside the load cell, protected using different systems: silicone coating, welded or screwed housing. The degree of protection against the ingress of foreign objects depends on the model and variant, and can be IP66, IP67 or IP68.

The operating principle of the load cells is by strain gauges glued onto an elastic body. The load cells work by bending beam, shear beam, or compression, depending on the model. The strain gauges form a full Wheatstone bridge.

Models with IP66 or IP67 rating are protected with a silicone coating. Models with IP68 rating are welded.

Construction – The construction material can be aluminum, alloy steel or stainless steel.

Ratings – $U_i = 15\text{V}$, $I_i = 0.288\text{A}$, $P_i = 1.08\text{W}$;
 $U_i = 13\text{V}$, $I_i = 0.332\text{A}$, $P_i = 1.08\text{W}$.

See Annex.

13. **Specific Conditions of Use:**

Models RL1218A, RL26018A, RL42018A: See Annex.

All other models: None.

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

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F 347 (Jul 24)



Page 2 of 9

SCHEDULE

US Certificate of Conformity No: FM18US0307X

Date	Description
h-20-December 2018	Original Issue.
3 October 2019	<u>Supplement 1:</u> Report Reference: PR454507 dated 3 October 2019. Description of the change: Addition of Load Cell Models RL260FD and RL72019SS
1 June 2020	<u>Supplement 2:</u> Report Reference: PR457128 dated 1 June 2020. Description of the change: Addition of load cell models RL75058-LP and RL75058S-LP.
10 June 2021	<u>Supplement 3:</u> Report Reference: PR459853 dated 10 June 2021. Description of the change: Addition of models RL72020, RL72020P, and RL72020SS.
26 April 2022	<u>Supplement 4:</u> Report Reference: PR462667 dated 26 April 2022. Description of the change: Addition of models RL32022 and RL32022-S. Removed the IP ratings from all models in section 11 Marking.
16 July 2024	<u>Supplement 5:</u> Report Reference: PR469472 dated 16 July 2024. Description of the Change(s): Addition of variants RL77032, RR77032SS and RL77032SS-HE. Some re-wording of the Description in section 12. The model RL72020P is delisted.
13 May 2025	<u>Supplement 6:</u> Report Reference: PR472355 dated 13 May 2025. Description of the Change(s): Addition of models RL50225, RL82021, and RL82025.
17 February 2026	<u>Supplement 7:</u> Report Reference: PR474773 dated 17 February 2026. Description of the Change(s): Addition of models RL26001A, RL20025A, RL20025SS

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F 347 (Jul 24)



SCHEDULE

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FM Approvals

ANNEX

RL1218A

Description of Equipment:

RL1218A Load cell
IP67

Specific Conditions of Use:

The load cell model RL1218A contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation to prevent impact or friction.

RL20025A

Description of Equipment:

RL20025A Load cell
IP67

RL20025SS

Description of Equipment:

RL20025SS Load cell
IP67

RL26001A

Description of Equipment:

RL26001A Load cell
IP67

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F 347 (Jul 24)



SCHEDULE

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FM Approvals

RL26018A

Description of Equipment:

RL26018A Load cell
IP67

Specific Conditions of Use:

The load cell model RL26018A contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation to prevent impact or friction.

RL260FD

Description of Equipment:

RL260FD Load cell
IP68

RL32018

Description of Equipment:

RL32018 Load cell
IP67

RL32018S

Description of Equipment:

RL32018S Load cell
IP67

RL32018S-HE

Description of Equipment:

RL32018S-HE Load cell
IP68

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F 347 (Jul 24)



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FM Approvals

RL32018S-P

Description of Equipment:

RL32018S-P Load cell
IP68

RL32018S-T

Description of Equipment:

RL32018S-T Load cell
IP68

RL32019S-HE

Description of Equipment:

RL32019S-HE Load cell
IP68

RL32022

Description of Equipment:

RL32022 Load cell
IP67

RL32022-S

Description of Equipment:

RL32022-S Load cell
IP68

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FM Approvals

RL32218S-HE

Description of Equipment:

RL32218S-HE Load cell
IP68

RL42018A

Description of Equipment:

RL42018A Load cell
IP66

Specific Conditions of Use:

The load cell model RL42018A contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation to prevent impact or friction.

RL50225

Description of Equipment:

RL50225 Load cell
IP66

RL72019SS

Description of Equipment:

RL72019SS Load cell
IP68

RL72020

Description of Equipment:

RL72020 Load cell

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F 347 (Jul 24)



SCHEDULE

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FM Approvals

IP67

RL72020SS

Description of Equipment:

RL72020SS Load cell
IP67

RL75058-LP

Description of Equipment:

RL75058-LP Load cell
IP67

RL75058S-LP

Description of Equipment:

RL75058S-LP Load cell
IP68

RL77032

Description of Equipment:

RL77032 Load cell
IP67

RL77032SS

Description of Equipment:

RL77032SS Load cell
IP67

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F 347 (Jul 24)



SCHEDULE

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FM Approvals

RL77032SS-HE

Description of Equipment:

RL77032SS-HE Load cell
IP68

RL82021

Description of Equipment:

RL82021 Load cell
IP68

RL82025

Description of Equipment:

RL82025 Load cell
IP68

RL9018SS

Description of Equipment:

RL9018SS Load cell
IP68

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F 347 (Jul 24)



Page 9 of 9

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(Type Reference and Name)

4. Name of Listing Company: Rice Lake Weighing Systems

5. Address of Listing Company: 230 West Coleman Street, Rice Lake, Wisconsin 54868, United States of America

6. The examination and test results are recorded in confidential report number:

PR452242 dated 20th December 2018

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

CSA C22.2 No. 60079-0:2011, CSA C22.2 No. 60079-11:2014, CSA C22.2 No. 60529:2005 (R2010),
CSA C22.2 No. 61010-1:2012

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

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Intrinsically Safe for Class I, II and III, Division 1, Groups A, B, C, D, E, F and G hazardous locations, indoors and outdoors, with an ambient temperature rating of T4 for $-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$,

Certificate issued by:



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SCHEDULE

US Certificate of Conformity No: FM18CA0146X

IP66, IP67, IP68.

11. The marking of the equipment shall include:

IS / I, II, III / 1 / ABCDEFG / T4 for $-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$,

12. Description of Equipment:

General – All of the load cells are transducers that create an electrical signal whose magnitude is directly proportional to the force applied. Electrical components are inside the load cell, protected using different systems: silicone coating, welded or screwed housing. The degree of protection against the ingress of foreign objects depends on the model and variant, and can be IP66, IP67 or IP68.

The operating principle of the load cells is by strain gauges glued onto an elastic body. The load cells work by bending beam, shear beam, or compression, depending on the model. The strain gauges form a full Wheatstone bridge.

Models with IP66 or IP67 rating are protected with a silicone coating. Models with IP68 rating are welded.

Construction – The construction material can be aluminum, alloy steel or stainless steel.

Ratings – $U_i = 15\text{V}$, $I_i = 0.288\text{A}$, $P_i = 1.08\text{W}$;
 $U_i = 13\text{V}$, $I_i = 0.332\text{A}$, $P_i = 1.08\text{W}$.

See Annex.

13. Specific Conditions of Use:

Models RL1218A, RL26018A, RL42018A: See Annex.

All other models: None.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

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10 June 2021	<u>Supplement 3:</u> Report Reference: PR459853 dated 10 June 2021. Description of the change: Addition of models RL72020, RL72020P, and RL72020SS.
26 April 2022	<u>Supplement 4:</u> Report Reference: PR462667 dated 26 April 2022. Description of the change: Addition of models RL32022 and RL32022-S. Removed the IP ratings from all models in section 11 Marking.
16 July 2024	<u>Supplement 5:</u> Report Reference: PR469472 dated 16 July 2024. Description of the Change(s): Addition of variants RL77032, RR77032SS and RL77032SS-HE. Some re-wording of the Description in section 12. The model RL72020P is delisted.
13 May 2025	<u>Supplement 6:</u> Report Reference: PR472355 dated 13 May 2025. Description of the Change(s): Addition of models RL50225, RL82021, and RL82025.
17 February 2026	<u>Supplement 7:</u> Report Reference: PR474773 dated 17 February 2026. Description of the Change(s): Addition of models RL26001A, RL20025A, RL20025SS

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F 347 (Jul 24)



SCHEDULE

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FM Approvals

ANNEX

RL1218A

Description of Equipment:

RL1218A Load cell
IP67

Specific Conditions of Use:

The load cell model RL1218A contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation to prevent impact or friction.

RL20025A

Description of Equipment:

RL20025A Load cell
IP67

RL20025SS

Description of Equipment:

RL20025SS Load cell
IP67

RL26001A

Description of Equipment:

RL26001A Load cell
IP67

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F 347 (Jul 24)



Page 4 of 9

SCHEDULE

US Certificate of Conformity No: FM18CA0146X

FM Approvals

RL26018A

Description of Equipment:

RL26018A Load cell
IP67

Specific Conditions of Use:

The load cell model RL26018A contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation to prevent impact or friction.

RL260FD

Description of Equipment:

RL260FD Load cell
IP68

RL32018

Description of Equipment:

RL32018 Load cell
IP67

RL32018S

Description of Equipment:

RL32018S Load cell
IP67

RL32018S-HE

Description of Equipment:

RL32018S-HE Load cell
IP68

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F 347 (Jul 24)



SCHEDULE

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FM Approvals

RL32018S-P

Description of Equipment:

RL32018S-P Load cell
IP68

RL32018S-T

Description of Equipment:

RL32018S-T Load cell
IP68

RL32019S-HE

Description of Equipment:

RL32019S-HE Load cell
IP68

RL32022

Description of Equipment:

RL32022 Load cell.
IP67

RL32022-S

Description of Equipment:

RL32022-S. Load cell
IP68

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FM Approvals

RL32218S-HE

Description of Equipment:

RL32218S-HE Load cell
IP68

RL42018A

Description of Equipment:

RL42018A Load cell
IP66

Specific Conditions of Use:

The load cell model RL42018A contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation to prevent impact or friction.

RL50225

Description of Equipment:

RL50225 Load cell
IP66

RL72019SS

Description of Equipment:

RL72019SS Load cell
IP68

RL72020

Description of Equipment:

RL72020 Load cell
IP67

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F 347 (Jul 24)



SCHEDULE

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FM Approvals

RL72020SS

Description of Equipment:

RL72020SS.Load cell
IP67

RL75058-LP

Description of Equipment:

RL75058-LP Load cell
IP68

RL75058S-LP

Description of Equipment:

RL75058S-LP Load cell
IP68

RL77032

Description of Equipment:

RL77032 Load cell
IP67

RL77032SS

Description of Equipment:

RL77032SS Load cell
IP67

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F 347 (Jul 24)



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FM Approvals

RL77032SS-HE

Description of Equipment:

RL77032SS-HE Load cell
IP68

RL82021

Description of Equipment:

RL82021 Load cell
IP68

RL82025

Description of Equipment:

RL82025 Load cell
IP68

RL9018SS

Description of Equipment:

RL9018SS Load cell
IP68

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F 347 (Jul 24)



Page 9 of 9

GENERAL NOTES:

1. INSTALLATION SHOULD BE IN ACCORDANCE WITH:
MANUFACTURER’S INSTRUCTIONS AND THE US/CANADIAN ELECTRICAL CODE ANSI/NFPA 70 AND CSA C22.1
2. BARRIER MANUFACTURERS INSTALLATION DRAWINGS MUST BE FOLLOWED WHEN INSTALLING THESE EQUIPMENTS
3. ALL BARRIERS SHALL BE CONNECTED TO INSTALLATION GROUND
4. JUNCTION BOX MANUFACTURERS INSTALLATION DRAWINGS MUST BE FOLLOWED WHEN INSTALLING THESE EQUIPMENTS
5. ELECTRICAL EQUIPMENT CONNECTED MUST NOT USE OR GENERATE MORE THAN 250V RMS OR DC
6. ALL WIRING HAS DISTRIBUTED INDUCTANCE AND CAPACITANCE. THE MAXIMUM PERMITTED CABLE PARAMETERS FOR THE PARTICULAR BARRIER MUST NOT BE EXCEEDED. IF THE INDUCTANCE AND CAPACITANCE OF THE CABLE USED ARE NOT KNOWN, 56 mH/m (0.2 mH/ft) AND 196 pF/m (60 pF/ft) MAY BE USED AS A CONSERVATIVE CRITERIA FOR DETERMINATION OF CABLE EFFECTS
7. LOAD CELL MODELS COVERED BY THIS DRAWING:
RL42018A, RL1218A, RL26018A, RL9018SS, RL32018, RL32018S, RL32018S–HE, RL32018S–P, RL32218S–HE, RL32019S–HE, RL32018S–T, RL72019SS, RL260FD, RL75058–LP, RL75058S–LP, RL72020, RL72020SS, RL32022, RL32022–S, RL77032, RL77032SS, RL77032SS–HE, RL82021, RL82025, RL50225, RL26001A, RL20025A, RL20025SS
8. OPTIONAL JUNCTION BOXES MUST BE APPROVED FOR USE WITH INTRISICALLY SAFE CIRCUITS FOR THE APPROPRIATE HAZZARDOUS LOCATION AREA.
9. APPLICATIONS NOT REQUIRING EXCITATION SENSING, SHALL EITHER TERMINATE AND INSULATE UNUSED SENSE WIRES OR CONNECT THE SENSING LEADS TO THE EXCITATION LEAD OF THE SAME POLARITY
10. STANDARD LOAD CELL MODELS RL42018A, RL1218A AND RL26018A CONTAIN ALUMINUM AND ARE CONSIDERED TO CONSTITUTE A POTENTIAL RISK OF IGNITION BY IMPACT OR FRICTION. CARE MUST BE TAKEN INTO ACCOUNT DURING INSTALLATION AND USE TO PREVENT IMPACT OR FRICTION
11. NON STANDARD VARIANTS OF ANY MODEL MADE OF ALUMINUM SHALL FULFILL POINT 10.
12. LOAD CELLS HAVE TO BE CONNECTED TO INSTALLATION GROUND. THAT SHALL BE ACHIEVED THROUGH MOUNTING BOLTS, MOUNTING ACCESSORIES, OR OTHER MEANS THAT ASSURE GROUNDING CONNECTIONS MUST BE COMPLIANT WITH THE NATIONAL ELECTRICAL CODE FOR THE U.S., AND WITH THE CANADIAN ELECTRICAL CODE FOR CANADA

WARNING – EXPLOSION HAZARD – SUBSTITUTION OF LOAD CELL AND/OR OTHER ELEMENTS MAY IMPAIR INTRINSIC SAFETY
WARNING – EXPLOSION HAZARD – TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING

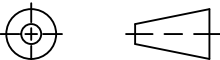
GENERAL HAZARDOUS (CLASSIFIED) LOCATION:
INTRINSICALLY SAFE CLASS I DIV 1 GROUP A–B–C–D TEMP. CLASS T4
INTRINSICALLY SAFE CLASS II,III DIV 1 GROUP E–F–G TEMP. CLASS T4

PERMISSIBLE AMBIENT TEMPERATURE AND TEMPERATURE CODE:
T4 TA: –25°C TO +60°C

Ui [V]	Ii [A]	Pi [W]	Ci [pF]	Li [mH]
15	0.288	1.08	0	0
13	0.332	1.08	0	0

REVISIONS			
REV	REFERENCE	INIT	DATE
A	ENGINEERING RELEASE	ABC	11/6/18
B	ECO16645: ADD RL72019SS & RL260FD	ABC	6/27/19
C1	ECO16995: ADD RL75058–LP, RL75058S–LP,RL72020, RL72020P & RL72020SS	ABC	3/5/21
D	ECO17706: ADDED RL32022 & RL32022–S	ABC	3/11/22
E1	ECO18473: ADDED RL77032 VERSIONS	ABC	4/23/24
F	ECO18774: ADDED RL82021 & RL82025	ABC	1/7/25
G	ECO18845: ADDED RL50225	ABC	2/21/25
H	ECO19128: ADDED RL26001A, RL20025A & RL20025SS	ABC	10/1/25

DRAWING REVISIONS MUST BE APPROVED
BY FACTORY MUTUAL PRIOR TO RELEASE.

		UNLESS OTHERWISE SPECIFIED UNITS TO BE INCHES ALL THREADS TO BE CLASS 2 ALL DIMENSIONS APPLICABLE AFTER TREATMENT				THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS AND REMAINS THE PROPERTY OF RICE LAKE WEIGHING SYSTEMS INC. AND IS CONFIDENTIAL. IT IS SUBMITTED AND MAY BE USED ONLY IN CONNECTION WITH RICE LAKE WEIGHING SYSTEMS' PROPOSAL AND/OR ITS CUSTOMERS' ORDERS. IT SHALL NOT BE DISCLOSED TO OTHERS OR COPIED WITHOUT RICE LAKE WEIGHING SYSTEMS' SPECIFIC WRITTEN CONSENT AND SHALL BE IMMEDIATELY RETURNED UPON REQUEST.															
MATERIAL ---		DO NOT SCALE DRAWING	DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED					TITLE INSTALLATION DRAWING, LOAD CELLS IN HAZARDOUS AREAS													
TREATMENT ---		FOR RLWS USE ONLY 	SURFACE FINISH ---✓	TOL.	DECIMAL																
				2 PLC	---																
				3 PLC	---																
				ANGLE	---																
THIRD ANGLE PROJECTION 		MFG.ENG. APPROVED		ABC 11/6/18		CKD.						DWG NO		193143							
		DES.ENG. APPROVED		ABC 11/6/18		DR.BY		ABC 11/6/18		SCALE		NA		SHEET		1 OF 3		REVISION		H	

