1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 14ATEX1214X** Issue: **1**

4 Equipment: **Models AST4600, AST46HA, AST46PT and 46SW Series Pressure Transducers**

5 Applicant: **American Sensor Technologies**

6 Address: 450 Clark Drive
Mount Olive, NJ 07828
USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012 EN 60079-1:2007 EN 60079-31:2009

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

II 2 G D
Ex d IIC T5 Gb
Ex tb IIIC T100°C Db
40ºC ≤ Tamb. ≤ +85°C

Project Number 70052468

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Deputy Certification Manager

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13 **DESCRIPTION OF EQUIPMENT**

The AST46XX Series' Pressure Transducers utilize a mechanical diaphragm to convert a mechanical pressure measurement into an electrical signal for use in the measurement of gases and liquids compatible with stainless steel. The transducers are manufactured as stainless steel sealed assemblies containing up to 2 PCBs.

The transducers consist of 3 parts:

i. the sensing element;
ii. the housing tube and;
iii. a conduit entry connection(adapter) ½" MNPT made from stainless steel.

A green ground (earth) conductor in both construction types (3, 4 or 5 lead wires sensors) is connected to the metallic housing.

The transmitters range in Maximum Working Pressure (MWP) rating up to 20000 psi. The physical construction of the Sensing Element varies in accordance with the pressure range. A representative list of sensing element part numbers appears in the table below:

Transmitter Maximum Working Pressure (psi)	AST Sensing Element Part Number
50	A09745
100	A09746
200	A09747
300	A09748
500	A09749
1000	A09750
3000	A09752
5000	A09753
7500	A09754
10000	A09755
20000	A03972 (1" housings)
20000	A10834 & A01704 (7/8 " housings)

The part numbers of the range of pressure transducers are as follows:

AST4600*bcdefghijklmnpqr* (-Z = CRN, SS, or other non performance related)
AST46HA*bcdefghijklmnopqr* (-Z = CRN, SS, or other non performance related)
AST46PT*abcdefghijklmnopqr* (-Z = CRN, SS, or other non performance related)

Where:
a (temperature output)

1: -40 to 85C
2: -40 to 125C
3: 0 to 70C
4: -55 to 125C
5: 0 to 200F

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE **Sira 14ATEX1214X**
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b (port information)

A: 1/4" NPT male	**I**:1/4"NPT female	**R**: 7/16-20UNF female
B: 1/8" NPT male	**J**: 1/8FNP	**S**:1/2"NPT female
C: 1/4"BSP male	**K**: 7/16-20UNF female	**T:** G1/2 MALE
D: G1/4 male	**L**: Frontend Cone	**U**: 1/8BSP male
E: 9/16-18UNF male	**M**: 3/8-24UNF male	**V**: 1/8BSP female
F: 7/16-20UNF male	**N**: VCR male	**W**: F250C female
G: M14x1.5 male	**P**:1/2"NPT male	**Z**: 1/2-20UNF male
H: M20x1.5 male		

c (most significant pressure range in PSI and pressure reference)
A: Absolute
V: Compound
C: Compound, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, G = Gauge

d (2^{nd} significant pressure range in PSI (0 for Bar))
X

e (3^{rd} significant pressure range in PSI (most significant for Bar))
X

f (4^{th} significant pressure range in PSI (2 nd significant for Bar))
X

j (lowest digit for pressure range in PSI (and Bar))
X

k (pressure units)

P: PSI	**K**: kg/cm^2	**M:** mBar
B: Bar	**H:** inH_2O	

l (electrical outputs)

1: 0.5-4.5 V Ratiometric	**A**: 10 mV/V
2: 0-5 V	**B**: 20 mV/V
3: 1-5 V	**F**: 5 mV/V
4: 4-20 mA	**G**: 1-10 V
5: 0-10 V	**J**: 0.1-5.1 V
6: 1-6 V	**K**: 0-5 V 4wire
8: 0.5-5.5 V	**L**: 0-10 V 4wire
9: 0.25-5 V	**M**: 0.25-4.75 V Ratiometric
	P: 0.5-4.5 V

m (electrical interface)

T: 2 feet of 18 AWG wires	**W**: 2 metres
U: 4 feet	**X**: Special lengths 18 inches minimum

n (wetted material)

0: 17-4PH stainless steel	**3**: Titanium
1: 316L	**4**: Hastelloy
2: Inconel 718	**6**: Waspaloy

o (diagnostic output AST46HA & AST46PT Only)

H: Fail High	**L**: Fail Low	**N**: Not Specified

pqr (special calibration)
eg: tolerances

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SCHEDULE

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46SW*abcdefghijklm* (-Z = CRN, SS, or other non performance related)

Where:

a (port information)

A: 1/4" NPT male	**I**:1/4"NPT female	**R**: 7/16-20UNF female
B: 1/8" NPT male	**J**: 1/8FNP	**S**:1/2"NPT female
C: 1/4"BSP male	**K**: 7/16-20UNF female	**T:** G1/2 MALE
D: G1/4 male	**L**: Frontend Cone	**U**: 1/8BSP male
E: 9/16-18UNF male	**M**: 3/8-24UNF male	**V**: 1/8BSP female
F: 7/16-20UNF male	**N**: VCR male	**W**: F250C female
G: M14x1.5 male	**P**:1/2"NPT male	**Z**: 1/2-20UNF male
H: M20x1.5 male		

b (max working pressure in PSI)

01: 50PSI	**05**: 1000PSI	**09**: 10000PSI
02: 100PSI	**06**: 3000PSI	**10**: 15000PSI
03: 250PSI	**07**: 5000PSI	**11**: 20000PSI
04: 500PSI	**08**: 7500PSI	

c (pressure unit)

P: PSI

d (switch)

E: SPDT (FORM C)

e (electrical connection)

T: 2 feet of 18 AWG wires	**W**: 2 metres
U: 4 feet	**X**: Special lengths 18 inches minimum

f (header material)

0: 17-4PH stainless steel	**3**: Titanium
1: 316L	**4**: Hastelloy
2: Inconel 718	**6**: Waspaloy

g (pressure reference)

0, 1, 2, A, C, G, V (Models with suffix G or V not suitable for Zone 21(Dust) atmosphere)

h (switching pressure)

5 digits: 0 to 20000

i (switching direction)

F: Falling switchpoint specified **R**: Rising switchpoint specified

j (hysteresis)

XX; hysteresis as a % of max working pressure between falling and rising switchpoints

k, l, m (special options)

eg: tolerances

Model Similarities and Differences:

AST4600 & AST46HA: Provide pressure measurement only.
AST46PT: Provide pressure and temperature measurement.
46SW: Provide pressure set point switched output.

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE **Sira 14ATEX1214X**
Issue 1

Variation 1 - This variation introduced the following changes:

i. The Special Condition for Safe Use that restricts the external pressure on potted flying leads was amended.

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report no.	Comment
0	10 November 2014	R70004581A	The release of the prime certificate.
1	27 November 2015	R70052468A	The introduction of Variation 1.

15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

15.1 The product label indicates that the process temperature range is -40°C to +125°C, taking this into account, the user/installer shall take precautions that ensure that the operating service temperature of the overall pressure transducer assembly is between -40°C to 92°C.

15.2 Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure may store an ignition-capable level of electrostatic charge. Therefore, the user/installer shall implement precautions to prevent the build up of electrostatic charge, e.g. locate the equipment where a charge-generating mechanism (such as wind-blown dust) is unlikely to be present and clean with a damp cloth.

15.3 The integral conductors shall be suitably mechanically protected and terminated in a suitable terminal or junction facility.

15.4 It is the user's responsibility to ensure that the earth continuity of the equipment is maintained via the mounting arrangement.

15.5 The enclosure is manufactured from light metal. In rare cases, ignition sources due to impact and friction sparks could occur and that shall be considered during installation.

15.6 The external pressure on potted flying leads shall not exceed 30 bar maximum.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 **CONDITIONS OF CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 The equipment at the conclusion of manufacture and before shipment shall be checked for continuity between the enclosure and green ground conductor.

17.4 The weld quality of each sensor is tested using helium mass spectrometry method to assure that leaks through the welded joints do not exceed the rate of 5e-8 cc/sec.

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Certificate Annexe

Certificate Number: **Sira 14ATEX1214X**

Equipment: **Models AST4600, AST46HA, AST46PT and 46SW Series Pressure Transducers**

Applicant: **American Sensor Technologies**

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
A03280	1 of 1	E	10 Oct 14	Outline, AST4600, ¼" MNPT w/ ½ NPT Conduit Fitting
A07085	1 of 1	D	10 Oct 14	Final Assembly, ¼" MNPT, 1-5V , Low
A07086	1 of 1	D	10 Oct 14	Final Assembly, ¼" MNPT, 1-5V , High
A13949	1 of 1	B	10 Oct 14	Final Assembly, ¼" MNPT, 4-20mA, Low
A14248	1 of 1	B	10 Oct 14	Final Assembly, ¼" MNPT, 4-20mA , High
A03536	1 of 1	F	10 Oct 14	Subassembly, Detail, AST-46xx, Conduit End
A10818	1 of 1	E	10 Oct 14	Subassembly, Detail, AST46xx, Conduit End
A10837	1 of 1	A	10 Oct 14	Adapter, 9/16-18 to F250 High Pressure Autoclave
A00011	1 of 1	M	10 Oct 14	Header, ¼ MNPT, Low
A00012	1 of 1	N	10 Oct 14	Header, ¼ MNPT, Low
A00018	1 of 1	G	10 Oct 14	Header, ¼ MNPT, High
A00063	1 of 1	G	10 Oct 14	Header, 1/8 MNPT, Low
A00071	1 of 1	E	10 Oct 14	Header, 1/8 MNPT, High
A01513	1 of 1	F	10 Oct 14	Header, 1/4 MBSPP, Low
A01514	1 of 1	F	10 Oct 14	Header, 1/4 MBSPP, Low
A03926	1 of 1	G	10 Oct 14	Header, 1/4 MBSPP, High
A04919	1 of 1	J	10 Oct 14	Header, 1/4 MBSPP, High
A02334	1 of 1	J	10 Oct 14	Header, 9/16-18UNF, Low
A02335	1 of 1	H	10 Oct 14	Header, 9/16-18UNF, High
A00119	1 of 1	J	10 Oct 14	Header, 7/16-20UNF, Low
A00126	1 of 1	N	10 Oct 14	Header, 7/16-20UNF, High
A02267	1 of 1	F	10 Oct 14	Header, M20x1.5 male
A02268	1 of 1	F	10 Oct 14	Header, M20x1.5 male
A00072	1 of 1	G	10 Oct 14	Header, ¼ FNPT, Low
A00075	1 of 1	G	10 Oct 14	Header, ¼ FNPT, Low
A00106	1 of 1	E	10 Oct 14	Header, ¼ FNPT, High
A02285	1 of 1	F	10 Oct 14	Header, ½ MNPT, Low
A02287	1 of 1	F	10 Oct 14	Header, ½ MNPT, Low
A04225	1 of 1	D	10 Oct 14	Header, ½ MNPT, High
A13152	1 of 1	B	10 Oct 14	Header, 9/16-18 for F250 C
A03974	1 of 1	B	10 Oct 14	Cone for F250 - C
A00200	1 of 1	J	10 Oct 14	PCB 4-20mA
A00207	1 of 1	Q	10 Oct 14	PCB Voltage O/P
A01210	1 of 1	S	10 Oct 14	PCB Voltage O/P
S00200	1 of 1	I	10 Oct 14	Schematic 4-20 mA
S00207	1 of 1	M	10 Oct 14	Schematic Voltage O/P
S01210	1 of 1	Q	10 Oct 14	Schematic Ratiometric
A02309	1 of 1	F	10 Oct 14	Sub-Assembly, PCB, Voltage Output
A02320	1 of 1	F	10 Oct 14	Sub-Assembly, PCB, Voltage Output
A10621	1 of 1	E	10 Oct 14	Sub-Assembly, 4-20mA PCB, 5V Excitation
A09302	1 of 1	A	10 Oct 14	Outline, AST46HA, ¼ MNPT w/ ½ NPT Conduit & Cable
A09303	1 of 1	A	10 Oct 14	Outline, AST46HA, ½ MNPT w/ ½ NPT Conduit & Cable
A02191	1 of 1	E	10 Oct 14	Housing, Short 1" Diameter
S10958	1 of 1	D	10 Oct 14	HA 4-20mA (Schematic Diagram)
A10958	1 of 1	D	10 Oct 14	Sub-Assembly, PCB, 4-20 mA Output, MAX1464

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Certificate Annexe

Certificate Number: **Sira 14ATEX1214X**

Equipment: **Models AST4600, AST46HA, AST46PT and 46SW Series Pressure Transducers**

Applicant: **American Sensor Technologies**

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
A10957	1 of 1	C	10 Oct 14	PCB, 4-20mA Output, MAX1464
S07949	1 of 2	C	10 Oct 14	Schematic, HA Dual 4-20 mA Out
S07949	2 of 2	C	10 Oct 14	Schematic, HA Dual 4-20 mA Out
A07949	1 of 1	C	10 Oct 14	PCB Dual 4-20 mA Output
A07950	1 of 1	A	10 Oct 14	Sub-Assembly, PCB, Dual 4-20 mA Output,
S10953	1 of 1	A	10 Oct 14	Schematic, HA Ratiometric
A10953	1 of 1	A	10 Oct 14	PCB Dual Ratiometric, Max 1464
A10954	1 of 1	A	10 Oct 14	Sub-Assembly, PCB, Dual Ratiometric Output,
S10956	1 of 2	A	10 Oct 14	Schematic, HA Voltage
S10956	2 of 2	A	10 Oct 14	Schematic, HA Voltage
A10956	1 of 1	A	10 Oct 14	Sub-Assembly, PCB, Dual Voltage Output, MAX1464
A10955	1 of 1	A	10 Oct 14	PCB, Dual Voltage, MAX 1464
S11224	1 of 2	B	10 Oct 14	Dual Switch (Schematic Diagram)
S11224	2 of 2	B	10 Oct 14	Dual Switch (Schematic Diagram)
A11223	1 of 1	B	10 Oct 14	PCB, Dual 'PNP' Switch, MAX1464
A11224	1 of 1	B	10 Oct 14	Sub-Assembly, Dual 'PNP' Switch, MAX1464
A10929	1 of 1	A	10 Oct 14	Outline, AST4600, ¼ MNPT, Absolute, w/½ MNPT conduit & cable
A10982	1 of 1	A	10 Oct 14	Outline, AST46HA, ¼ MNPT, w/½ MNPT conduit & cable
A10980	1 of 1	A	10 Oct 14	Outline, AST46HA, ¼ MNPT, Absolute, w/½ MNPT conduit & cable
A10979	1 of 1	B	10 Oct 14	Outline, AST46HA, ¼ MNPT, Dual Output, w/½ MNPT conduit & cable
A10977	1 of 1	A	10 Oct 14	Outline, AST46HA, ¼ MNPT, Dual Output, Absolute, w/½ MNPT conduit & cable
A09178	1 of 1	F	10 Oct 14	Sub-Assembly, ¼ MNPT, 316L SS, Sealed, w/Thick Ceramic
A10351	1 of 1	E	10 Oct 14	Sensor, Media Isolated, Absolute, 316L
A10930	1 of 1	A	10 Oct 14	Outline, AST4600, ¼ MNPT, Vented, w/½ MNPT conduit & cable
A10981	1 of 1	A	10 Oct 14	Outline, AST46HA, ¼ MNPT, Vented, w/½ MNPT conduit & cable
A10357	1 of 1	H	10 Oct 14	Sensor, Media Isolated, Gauge, 316L
A10368	1 of 1	G	10 Oct 14	Sensor, Media Isolated, Gauge, 316SS, 5 & 10 mV/V
A10804	1 of 1	C	10 Oct 14	Adapter, ½ MNPT for 0.875 in. Explosion-proof assemblies
A10806	1 of 1	D	10 Oct 14	Adapter, ½ MNPT Conduit for 0.875 in. w/sintered plug
A10805	1 of 1	C	10 Oct 14	Adapter, ½ MNPT for 1 in. Explosion-proof assemblies
A13101	1 of 1	A	10 Oct 14	Sensor, Media Isolated, Flush, G1/2, 316SS, 10 mV/V
A10807	1 of 1	D	10 Oct 14	Adapter, ½ MNPT Conduit for 1 in. w/sintered plug
A10817	1 of 1	D	10 Oct 14	Tube, Vent, Explosion Proof
A06441	1 of 1	C	10 Oct 14	Adaptor, NovaSensor to ¼ MNPT, 316 SS
A10051	1 of 1	A	10 Oct 14	Adaptor, NovaSensor to ¼ FNPT, 316 SS
S11220	1 of 1	D	10 Oct 14	PGA308 4-20mA PCB (Schematic Diagram)
A11219	1 of 1	C	10 Oct 14	PCB, 4-20mA, PGA308 (PCB Layouts and Parts List)
A11220	1 of 1	D	10 Oct 14	Sub-Assembly, PCB, 4-20mA, PGA308 (PCB Layouts and Parts List)
S11222	1 of 1	E	10 Oct 14	PGA308 Ratiometric PCB (Schematic Diagram)
A11221	1 of 1	C	10 Oct 14	PCB, Ratiometric, PGA308 (PCB Layouts and Parts List)
A11222	1 of 1	F	10 Oct 14	Sub-Assembly, PCB Ratiometric, PGA308 (PCB Layouts and Parts List)
S11240	1 of 1	C	10 Oct 14	PGA308 0-xV PCB (Schematic Diagram)

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Certificate Annexe

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Equipment: **Models AST4600, AST46HA, AST46PT and 46SW Series Pressure Transducers**

Applicant: **American Sensor Technologies**

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
A11239	1 of 1	C	10 Oct 14	PCB, Voltage, PGA308 (PCB Layouts and Parts List)
A11240	1 of 1	C	10 Oct 14	Subassembly…….(PCB Layouts and Parts List)
S11370	1 of 1	B	10 Oct 14	PGA308 1-xV PCB (Schematic Diagram)
A11369	1 of 1	C	10 Oct 14	PCB 1-x Voltage, PGA308 (PCB Layouts and Parts List)
A11370	1 of 1	B	10 Oct 14	Sub-Assembly, PCB, 1-x Voltage, PGA308 (PCB Layouts and Parts List)
A11466	1 of 1	C	10 Oct 14	PCB, Main Board
S11467	1 of 1	G	10 Oct 14	PGA309 Main Board (Schematic Diagram)
A11467	1 of 1	H	10 Oct 14	Sub-Assembly, PCB, Main Board, PGA309 (PCB Layouts and Parts List)
A11468	1 of 1	D	10 Oct 14	PCB, PGA309 4-20mA
S11469	1 of 1	D	10 Oct 14	PGA309 4-20mA (Schematic Diagram)
A11469	1 of 1	D	10 Oct 14	Sub-Assembly, PCB, 4-20mA, PGA309 (PCB Layouts and Parts List)
A11470	1 of 1	B	01 Oct 14	PCB, PGA309 Ratiometric
S11471	1 of 1	A	01 Oct 14	PGA309 Ratiometric (Schematic Diagram)
A11471	1 of 1	A	01 Oct 14	Sub-Assembly, PCB, Ratiometric, PGA309 (PCB Layouts and Parts List)
A11472	1 of 1	B	10 Oct 14	PCB, PGA309 1-xV
S11473	1 of 1	C	10 Oct 14	PGA309 1-x Voltage PCB (Schematic Diagram)
A11473	1 of 1	C	10 Oct 14	Sub-Assembly, PCB, 1-x Voltage, PGA309 (PCB Layouts and Parts List)
A11474	1 of 1	B	10 Oct 14	PCB, PGA309 0-xV
S11475	1 of 1	C	10 Oct 14	PGA309 0-xV PCB (Schematic Diagram)
A11475	1 of 1	C	10 Oct 14	Sub-Assembly, PCB, 0-x Voltage, PGA309 (PCB Layouts and Parts List)
S11520	1 of 1	C	10 Oct 14	PGA309 Ratiometric Complete (Schematic Diagram)
A11520	1 of 1	C	10 Oct 14	Sub-Assembly, PCB, Ratiometric, PGA309, Complete (PCB Layouts and Parts List)
A11519	1 of 1	C	10 Oct 14	PCB, PGA309 Ratiometric, Complete
A06605	1 of 1	A	10 Oct 14	Housing, Long, 1" Diameter
A04231	1 of 1	N	10 Oct 14	Engraved Markings, CSA Explosionproof
A11637	1 of 1	F	10 Oct 14	Layout, Engraved Markings, CSA Explosion Proof
A11638	1 of 1	E	10 Oct 14	Layout, Engraved Markings l, CSA, Explosion-Proof, AST46PT, Sealed
A11452	1 of 1	G	10 Oct 14	Layout, Engraved Markings, CSA, Explosion-Proof, AST46PT, Vented
A15987	1 of 1	A	10 Oct 14	Label, CSA, Explosion Proof, Vented
A15988	1 of 1	A	10 Oct 14	Label, CSA, Explosion Proof, AST46PT, Vented
A15989	1 of 1	A	10 Oct 14	Label, CSA, Explosion Proof, Sealed
A15990	1 of 1	A	10 Oct 14	Label, CSA, Explosion Proof, AST46PT, Vented
A04970	1 of 1	A	10 Oct 14	Label, Blank, 2 ¼" × 1"

Issue 1 No new drawings were introduced.

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