



## EU-TYPE EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Certificate Number: **Sira 01ATEX3022X** Issue: **16**

Equipment: **Traction Batteries Up To 68.8 kWh**

Applicant: **Hawker GmbH**

Address: **Dieckstraße 42  
Hagen D-58089  
Germany**

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

CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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.

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 IEC 60079-0:2018      EN IEC 60079-7:2015+A1:2018      EN 60079-31:2014

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

This EU-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.

The marking of the equipment shall include the following:



II 2 G  
II 2 D  
Ex eb IIC T6 Gb  
Ex tb IIIC T80°C Db



I M2  
Ex eb I Mb

Signed: Michelle Halliwell

Title: Director of Operations



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## SCHEDULE

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#### 13 DESCRIPTION OF EQUIPMENT

The range of Traction Batteries comprise fabricated mild steel containers in which a range of increased safety, lead-acid cells are arranged. The batteries are manufactured with a power up to 68.8 kWh and a nominal voltage up to 400 V.

The containers utilise louvered and baffled ventilation slots to prevent the evolution of explosive concentrations of hydrogen and oxygen within the container's internal free volume. A large number of different configurations and shapes may be manufactured, within the limits described on the manufacturer's specification drawings.

The type designation code is made up of the following:

- No of cells and battery type reference
- No of terminals (single or double post)
- Number of positive plates
- Cell type
- Capacity per positive plate

The minimum ventilation ratios of the battery containers are:

- Battery container top vents = 850 mm<sup>2</sup>/kWh
- Battery container side vents = 1320 mm<sup>2</sup>/kWh

The battery container is fitted with a suitably certified cable gland to protect the cable that is fitted between the battery and attached apparatus. Alternatively, a rubber grommet and a suitably certified intermediate terminal box may be fitted.

There is also the option to fit a suitably certified increased safety enclosure with a flameproof socket to the side of the battery enclosure, located where the connecting cables exit the enclosure. The particular assembly that is fitted is not specifically identified as part of the battery certification.

**Variation 1** (dated 15 October 2002) - This variation introduced the following changes:

- i. The addition of alternative insulating coatings for the internal surfaces of the battery enclosure.
- ii. The option to fit a suitably certified increased safety enclosure with a flameproof socket to the side of the battery enclosure, located where the connecting cables exit the enclosure. The particular assembly that is fitted is not specifically identified as part of the battery certification.
- iii. The design of the cells utilised in the construction of the battery was modified.

**Variation 2** (dated 3 April 2003) - This variation introduced the following changes:

- i. The introduction of Apparatus Group I, Category M2 and EEx e I marking.
- ii. The use of Evolution Type B and Evolution Type D cells was allowed.
- iii. The use of battery crates with 9 cell and 20 cell layouts was allowed.

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**Variation 1** (dated 22 July 2005) - This variation introduced the following change:

- i. The use of an alternative label.

**Variation 2** (dated 14 October 2005) - This variation introduced the following changes:

- i. The manufacturer's name was changed from Hawker France S.A. to Hawker S.A.R.L.
- ii. The introduction of minor modifications to the certified drawings, none of which affect aspects of the product that are relevant to explosion safety.

**Variation 3** (dated 6 August 2007) - This variation introduced the following changes:

- i. Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents originally listed in section 9, EN 50014:1997 (amendments A1 to A2), EN 50019:2000 and EN 50281-1-1:1998, were replaced by EN 60079-0:2006, EN 60079-7:2007, EN 61241-0:2006 and EN 61241-1:2004, the markings in section 12 were updated accordingly.
- ii. Minor modifications of the certified drawings were recognised, these are amendments are in-line with the new standards listed above and also correct typographical errors.
- iii. Battery arrangements up to 400 V were allowed to be used.
- iv. An additional warning label was introduced; this uses an alternative label material and fixing method.

**Variation 4** (dated 26 September 2007) - This variation introduced the following change:

- i. The addition of two alternative materials for cell enclosures and inside battery enclosure.

**Variation 5** (dated 26 September 2007) - This variation introduced the following change:

- i. The removal of Cell Layout from the Type Designation Code.

**Variation 6** - This variation introduced the following changes:

- i. The recognition of minor drawing modifications; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.
- ii. To allow a change in the product description to allow the capacity to be specified in kWh.
- iii. Drawings SIRAATEX1, SIRAATEX4 P25127, P25128, P24807 and P24808 have been modified to include a wider range of cable cross sections.

**Variation 7** - This variation introduced the following change:

- i. The introduction of a new label drawing showing the brand name Oerlikon was recognised.

**Variation 8** - This variation introduced the following change:

- i. Recognition of the company name and address change:

| From:   | To:  |
|---|--|
| Enersys S.A.R.L.<br>ZI Est rue A Fleming<br>62033 Arras<br>France | Enersys s.r.o.<br>Nádražní 555<br>26724<br>Hostomice pod Brdy Czech Republic |

- ii. Removal of the compliance standards and inclusion of the company website address (as applicable), to the labels detailed on the drawings.

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**Variation 9** - This variation introduced the following changes:

- Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2006, EN 60079-7:2007, EN 61241-0:2006 and EN 61241-1:2004 were replaced by EN 60079-0:2012+A11:2013, EN 60079-7:2015 and EN 60079-31:2014, the markings were updated accordingly to recognise the new standards. A suffix "X" is added to the certificate, to acknowledge the necessity to charge the battery in a non-hazardous location in the instruction manual;
- To introduce a new range of cells, known as the NexSys, which have 6 to 27 positive plates in groups of 3, with 7 different heights
- Replacement of the current notified body number "0518", with the generic code "nnnn".

**Variation 10** - This variation introduced the following change:

- The notified body number was modified from "nnnn" to "2813".
- Include a modification to the product name on the two ATEX battery labels:

|              |                             |
|--------------|-----------------------------|
| From: Nexsys | To: Nexsys <sub>SCORE</sub> |
|--------------|-----------------------------|

**Variation 11** - This variation introduced the following change:

- Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012+A1:2013, and EN 60079-7:2015 were replaced by EN IEC 60079-0:2018, and EN IEC 60079-7:2015+A1:2018; the markings were updated accordingly to recognise the new standards and a Specific Condition was introduced.
- The Certificate holders name and address was changed:

|                    |                |
|--------------------|----------------|
| From:              | To:            |
| Enersys s.r.o.     | Hawker GmbH    |
| Nádražní 555       | Dieckstraße 42 |
| 26724              | Hagen D-58089  |
| Hostomice pod Brdy | Germany        |
| Czech Republic     |                |

**Variation 12** - This variation introduced the following changes:

- To change the product name

| From   | To                                |
|--|-----------------------------------|
| Nexsys <sub>CORE</sub> Traction Batteries Up To 68.8 kWh | Traction Batteries Up To 68.8 kWh |

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Reports and Certificate History

| Issue | Date            | Report number | Comment   |
|-------|-----------------|---------------|---|
| 0     | 1 November 2001 | R53A7212B     | The release of the prime certificate in the name of Hawker GmbH, Dieckstrasse 42, D-58089 Hagen, Germany. |

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| Issue | Date              | Report number | Comment   |
|-------|-------------------|---------------|---|
| 1     | 15 October 2002   | R53A9083A     | The introduction of Variation 1.  |
| 2     | 3 April 2003      | R53A9706B     | The introduction of Variation 2.  |
| 3     | 6 July 2004       | R53A11442A    | The re-issue of the prime certificate in the name of Hawker France SA, ZI Est, Rue Alexander Fleming, 62033 Arras, France to introduce the changes described in report number R53A11442A and to incorporate variation 1 dated <b>15 October 2002</b> and variation 2 dated <b>3 April 2003</b> .  |
| 4     | 22 July 2005      | R51A13744A    | The introduction of Variation 1.  |
| 5     | 14 October 2005   | R51A13711A    | The introduction of Variation 2.  |
| 6     | 6 August 2007     | R51A16168A    | This Issue covers the following changes: <ul style="list-style-type: none"> <li>All previously issued certification was rationalised into a single certificate, Issue 6, Issues 0 to 5 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.</li> <li>The introduction of Variation 3.</li> </ul>   |
| 7     | 26 September 2007 | R51A17275A    | The introduction of Variation 4.  |
| 8     | 14 February 2008  | R52A17587A    | To recognise the change of Applicant's name from Hawker S.A.R.L. To Enersys S.A.R.L.<br>The introduction of Variation 5.  |
| 9     | 11 February 2010  | R19846A/00    | The introduction of Variation 6.  |
| 10    | 18 November 2010  | R23702A/00    | The introduction of Variation 7.  |
| 11    | 10 April 2017     | R70073976A    | This Issue covers the following changes: <ul style="list-style-type: none"> <li>EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i></li> <li>The introduction of Variation 8.</li> </ul> |
| 12    | 15 October 2019   | 0953          | Transfer of certificate Sira 01ATEX3022 from Sira Certification Service to CSA Group Netherlands B.V.   |
| 13    | 18 November 2019  | R70141862A    | The introduction of Variation 9.  |
| 14    | 23 June 2020      | R80037186A    | This Issue covers the following changes: <ul style="list-style-type: none"> <li>A typographical error was corrected in the marking, Section 12.</li> <li>The introduction of Variation 10.</li> </ul>   |
| 15    | 31 March 2022     | R80095476A    | The introduction of Variation 11.   |
| 16    | 11 August 2022    | R80130535A    | The introduction of Variation 12.   |

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- 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)
- 15.1 The battery shall not be charged in a hazardous area.
- 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 MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The manufacturer shall include the cell marking details in the instruction leaflet.
- 17.4 Each battery shall be subjected to a routine insulation test in accordance with EN 60079-7:2007 clause 6.6.2. The insulation resistance shall be at least 1 MΩ between the live parts and the battery container.

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# Certificate Annexe



Certificate Number: Sira 01ATEX3022X  
Equipment: Traction Batteries Up To 68.8 kWh  
Applicant: Hawker GmbH

## Issue 0 to 2

The drawings associated with these Issues were replaced by those listed in Issue 3.

## Issue 3

| Drawing   | Sheets | Rev. | Date      | Title   |
|-----------|--------|------|-----------|---|
| SIRAATEX1 | 1 of 1 | 4    | 28 May 04 | 158 mm Type B Lead Acid Motive Power Cells        |
| SIRAATEX4 | 1 of 1 | 4    | 28 May 04 | 198 mm Type D Lead Acid Motive Power Cells        |
| P25127    | 1 of 1 | 5    | 28 May 04 | 158 mm Gelled Type B Lead Acid Motive Power Cells |
| P25128    | 1 of 1 | 5    | 28 May 04 | 198 mm Gelled Type D Lead Acid Motive Power Cells |
| P24807    | 1 of 1 | 5    | 28 May 04 | Zone 1 Battery with 42 mm Louver Crate            |
| P25326    | 1 of 4 | 2    | 28 May 04 | 'France' Manufactured Parts Labels                |
| P25326    | 2 of 4 | 2    | 28 May 04 | 'Germany' Manufactured Parts Labels               |
| P25326    | 3 of 4 | 2    | 28 May 04 | 'Poland' Manufactured Parts Labels                |
| P25326    | 4 of 4 | 2    | 28 May 04 | 'Czech Republic' Manufactured Parts Labels        |

## Issue 4

| Drawing | Sheets | Rev. | Date      | Title        |
|---------|--------|------|-----------|--------------|
| P25473  | 1 of 1 | 1    | 13 Jul 05 | Cells Labels |

## Issue 5

| Drawing   | Sheets | Rev. | Date      | Title   |
|-----------|--------|------|-----------|---|
| SIRAATEX1 | 1 of 1 | 5    | 27 Jun 05 | 158 mm Type B Lead Acid Motive Power Cells        |
| SIRAATEX4 | 1 of 1 | 5    | 27 Jun 05 | 198 mm Type D Lead Acid Motive Power Cells        |
| P25127    | 1 of 1 | 6    | 27 Jun 05 | 158 mm Gelled Type B Lead Acid Motive Power Cells |
| P25128    | 1 of 1 | 6    | 27 Jun 05 | 198 mm Gelled Type D Lead Acid Motive Power Cells |
| P24807    | 1 of 1 | 6    | 27 Jun 05 | Zone 1 Battery with 42 mm Louver Crate            |
| P25326    | 1 of 4 | 3    | 27 Jun 05 | 'France' Manufactured Parts Labels                |
| P25326    | 2 of 4 | 3    | 27 Jun 05 | 'Germany' Manufactured Parts Labels               |
| P25326    | 3 of 4 | 3    | 27 Jun 05 | 'Poland' Manufactured Parts Labels                |
| P25326    | 4 of 4 | 3    | 27 Jun 05 | 'Czech Republic' Manufactured Parts Labels        |

## Issue 6

| Drawing   | Sheets | Rev. | Date (Stamp) | Title                               |
|-----------|--------|------|--------------|-------------------------------------|
| SIRAATEX1 | 1 of 1 | 9    | 25 Jul 07    | Acid Motive Power Cells Type B      |
| SIRAATEX4 | 1 of 1 | 8    | 25 Jul 07    | Acid Motive Power Cells Type D      |
| P25127    | 1 of 1 | 9    | 25 Jul 07    | Lead Acid Motive Power Cells Type B |
| P25128    | 1 of 1 | 9    | 25 Jul 07    | Lead Acid Motive Power Cells Type D |
| P24807    | 1 of 1 | 9    | 25 Jul 07    | Batteries Up To 860 Ah & 68.8 Kw/h  |
| P25326    | 1 of 4 | 5    | 25 Jul 07    | Cell/Battery Labels                 |
| P25326    | 2 of 4 | 5    | 25 Jul 07    | Cell/Battery Labels                 |
| P25326    | 3 of 4 | 6    | 25 Jul 07    | Cell/Battery Labels                 |
| P25326    | 4 of 4 | 5    | 25 Jul 07    | Cell/Battery Labels                 |
| P25473    | 1 of 1 | 3    | 25 Jul 07    | Cell/Battery Labels                 |

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# Certificate Annexe



Certificate Number: Sira 01ATEX3022X

Equipment: Traction Batteries Up To 68.8 kWh

Applicant: Hawker GmbH

## Issue 7

| Drawing   | Sheets | Rev. | Date (Stamp) | Title                               |
|-----------|--------|------|--------------|-------------------------------------|
| SIRAATEX1 | 1 of 1 | 10   | 26 Sept 07   | Acid Motive Power Cells Type B      |
| SIRAATEX4 | 1 of 1 | 9    | 26 Sept 07   | Acid Motive Power Cells Type D      |
| P25127    | 1 of 1 | 9    | 26 Sept 07   | Lead Acid Motive Power Cells Type B |
| P25128    | 1 of 1 | 10   | 26 Sept 07   | Lead Acid Motive Power Cells Type D |

## Issue 8

| Drawing   | Sheets | Rev. | Date (Stamp) | Title                               |
|-----------|--------|------|--------------|-------------------------------------|
| SIRAATEX1 | 1 of 1 | 13   | 14 Feb 08    | Acid Motive Power Cells Type B      |
| SIRAATEX4 | 1 of 1 | 12   | 14 Feb 08    | Acid Motive Power Cells Type D      |
| P25127    | 1 of 1 | 13   | 14 Feb 08    | Lead Acid Motive Power Cells Type B |
| P25128    | 1 of 1 | 13   | 14 Feb 08    | Lead Acid Motive Power Cells Type D |
| P24807    | 1 of 1 | 10   | 14 Feb 08    | Batteries Up To 860 Ah & 68.8 Kw/h  |
| P25473    | 1 of 1 | 4    | 14 Feb 08    | Cell/Battery Labels                 |

## Issue 9

| Drawing   | Sheets | Rev. | Date (Stamp) | Title                                      |
|-----------|--------|------|--------------|--|
| SIRAATEX1 | 1 of 1 | 15   | 18 Jan 10    | Acid Motive Power Cells Type B             |
| SIRAATEX4 | 1 of 1 | 14   | 18 Jan 10    | Acid Motive Power Cells Type D             |
| P24807    | 1 of 1 | 11   | 18 Jan 10    | Batteries Up To 68.8 Kw/h                  |
| P25127    | 1 of 1 | 14   | 18 Jan 10    | Lead Acid Motive Power Cells Type B        |
| P25128    | 1 of 1 | 14   | 18 Jan 10    | Lead Acid Motive Power Cells Type D        |
| P25326    | 1 of 4 | 7    | 18 Jan 10    | 'France' Manufactured Parts Labels         |
| P25326    | 2 of 4 | 7    | 18 Jan 10    | 'Germany' Manufactured Parts Labels        |
| P25326    | 3 of 4 | 8    | 18 Jan 10    | 'Poland' Manufactured Parts Labels         |
| P25326    | 4 of 4 | 7    | 18 Jan 10    | 'Czech Republic' Manufactured Parts Labels |
| P25473    | 1 of 1 | 5    | 18 Jan 10    | Battery Labels                             |

## Issue 10

| Drawing | Sheets | Rev. | Date (Stamp) | Title       |
|---------|--------|------|--------------|-------------|
| P26414  | 1 of 1 | 1    | 17 Nov 2010  | Cell Labels |

## Issue 11

| Drawing | Sheets | Rev. | Date (Stamp) | Title                                      |
|---------|--------|------|--------------|--|
| P25326  | 1 of 4 | 8    | 18 Jan 17    | 'France' Manufactured Parts Labels         |
| P25326  | 2 of 4 | 8    | 18 Jan 17    | 'Germany' Manufactured Parts Labels        |
| P25326  | 3 of 4 | 9    | 18 Jan 17    | 'Poland' Manufactured Parts Labels         |
| P25326  | 4 of 4 | 8    | 18 Jan 17    | 'Czech Republic' Manufactured Parts Labels |
| P25473  | 1 of 1 | 6    | 18 Jan 17    | Battery Labels                             |
| P26414  | 1 of 1 | 2    | 18 Jan 17    | Cell Labels                                |

## Issue 12. No new drawings were introduced

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# Certificate Annexe



Certificate Number: Sira 01ATEX3022X  
Equipment: Traction Batteries Up To 68.8 kWh  
Applicant: Hawker GmbH

## Issue 13

| Drawing      | Sheets | Rev. | Date (Stamp) | Title                                      |
|--------------|--------|------|--------------|--|
| P25326       | 1 of 4 | 4    | 09 Oct 19    | 'France' Manufactured Parts Labels         |
| P25326       | 2 of 4 | 4    | 09 Oct 19    | 'Germany' Manufactured Parts Labels        |
| P25326       | 3 of 4 | 4    | 09 Oct 19    | 'Poland' Manufactured Parts Labels         |
| P25326       | 4 of 4 | 4    | 09 Oct 19    | 'Czech Republic' Manufactured Parts Labels |
| 480-0899-400 | 1 of 1 | A    | 09 Oct 19    | EX Hawker IIC/IIIC                         |
| 480-0899-401 | 1 of 1 | A    | 18 Nov 19    | EX Hawker IIC/IIIC                         |

The following drawings are now obsolete and shall be removed from the battery certificate.

| Drawing | Sheets | Rev. | Title          |
|---------|--------|------|----------------|
| P25473  | 1 of 1 | 6    | Battery Labels |
| P26414  | 1 of 1 | 2    | Cell Labels    |

## Issue 14

| Drawing      | Sheets | Rev. | Date (Stamp) | Title                          |
|--------------|--------|------|--------------|--------------------------------|
| 480-0899-402 | 1 of 1 | B    | 29 Apr 20    | ATEX Label, Ex Nexsys IIB/IIIB |
| 480-0899-403 | 1 of 1 | B    | 29 Apr 20    | ATEX Label, Ex Nexsys IIC/IIIC |

The following drawings have been replaced by those listed above:

| Drawing      | Sheets | Rev. | Date (Stamp) | Title                          |
|--------------|--------|------|--------------|--------------------------------|
| 480-0899-400 | 1 of 1 | A    | 09 Oct 19    | ATEX Label, Ex Nexsys IIC/IIIC |
| 480-0899-401 | 1 of 1 | A    | 18 Nov 19    | ATEX Label, Ex Nexsys IIC/IIIC |

## Issue 15

| Drawing      | Sheets | Rev. | Date (Stamp) | Title  |
|--------------|--------|------|--------------|--|
| 480-0899-402 | 1 of 1 | D    | 03 Mar 22    | ATEX Label, Ex Nexsys IIB/IIIB                                 |
| 480-0899-403 | 1 of 1 | D    | 03 Mar 22    | ATEX Label, Ex Nexsys IIC/IIIC                                 |
| P24807       | 1 of 1 | 12   | 03 Mar 22    | Zone 1 battery with 42mm louver crate batteries up to 68,8 kWh |
| P25326       | 1 of 4 | 10   | 03 Mar 22    | Label / Arras plant  |
| P25326       | 2 of 4 | 10   | 03 Mar 22    | Label / Hagen plant  |
| P25326       | 3 of 4 | 10   | 03 Mar 22    | Label / Bielsko plant  |
| P25326       | 4 of 4 | 10   | 03 Mar 22    | Label / Hostomice plant  |

The label drawings 480-0899-402 and 480-0899-403 were updated as following: updated markings/ address change.

On the assembly drawing P24807 the warning label text has been modified from "SEPARATE ONLY IN A NON-HAZARDOUS AREAS" to "DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT".

The cells label drawings P25326 Page 1 to 4 were updated to include markings update and address change

**Issue 16.** No new drawings were introduced

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