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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Ultrasonic Thickness Measurement report**  **Протокол по результатам проведения ультразвуковой толщинометрии** | | | | | | | | | | | | | | | |
| **JOB DETAILS / РАБОЧАЯ ИНФОРМАЦИЯ** | | | | | | | | | | | | | | | |
| **Client**  Клиент | | | **NCOC N.V.** | | | | | **Project**  Проект | | | | | **ESKENE WEST** | | |
| **Work location**  Место работы | | | **OSF Unit 334** | | | | | **Control object**  Объект контроля | | | | | **According to table** | | |
| **Material**  Марка стали | | | **A333 Gr.6.** | | | | | **Dimension**  Размер | | | | | **8’’ × 8.18 mm (A21)** | | |
| **Calibration Temperature**  Температура калибровочного блока | | | **+15°C** | | | | | **Object Temperature**  Температура объекта контроля | | | | | **+15°C** | | |
| **Surface condition**  Состояние поверхности | | | **Coated** | | | | | **Couplant**  Контактная среда | | | | | **UT Gel** | | |
| **Correction factors**  Поправочные факторы | | | **n/a** | | | | | **Roughness**  Шероховатость | | | | | **-** | | |
| **INSPECTION PROCEDURE / НОРМАТИВНЫЕ ДОКУМЕНТЫ** | | | | | | | | | | | | | | | |
| **Procedure**  Процедура | | **QP-11-UTT-Q01 Rev 04** | | | | **Standard for testing**  Стандарт по контролю | | | | **GOST 28702-90** | | **Standard for item**  Стандарт для ОК | | | **ASME B31.3** |
| **EQIPMENT PARAMETERS / ПАРАМЕТРЫ ОБОРУДОВАНИЯ** | | | | | | | | | | | | | | | |
| **Probe, S/N**  Датчик, № | | | | | **D790 / 1306596** | | | **Size**  Размер | | | | | **11 mm** | | |
| **Angle**  Угол ввода | | | | | **0º** | | | **Crystal**  ПЭ | | | | | **Dual** | | |
| **Frequency**  Частота преобразователя | | | | | **5 MHz** | | | **Accuracy**  Точность | | | | | **± 0,1 mm** | | |
| **CALIBRATION BLOCK DETAILS / ПАРАМЕТРЫ КАЛИБРОВОЧНОГО БЛОКА** | | | | | | | | | | | | | | | |
| **Calibration Block**  Калибровочный блок | | | | | **Step wedge** | | | **Calibration Block Range**  Диапазон толщин калибровочного блока | | | | | **5.0-20.0 mm** | | |
| **INSPECTION EQUIPMENT / ОБОРУДОВАНИЕ ИНСПЕКЦИОННОГО КОНТРОЛЯ** | | | | | | | | | | | | | | | |
| **№** | **Equipment**  Оборудование | | | **Manufacture** Изготовитель | | | **Serial number**  Серийный номер | | | | **Certificate**  Сертификат поверке | | | **Expire date**  Дата истечения поверки | |
|  | 45 MG | | | OLYMPUS | | | 191332001 | | | | KZ-01-22-Ж-0207 | | | 02.02.2023 | |
|  | Step wedge calibration block  5-10-20-40mm | | | Fizpribor | | | 3255-20 | | | | - | | | - | |
| **Job description**   1. UT measurements were conducted for thickness monitoring of 8” pipelines. 2. Echo-to-echo UT technique was used. 3. UT spot check was performed on Top, Bottom, Extrados and Intrados sides related to object position. | | | | | | | | | 1  Flow direction | | | | | | |
| **Notes** / Примечания: | | | | | | | | | | | | | | | |

| **INSPECTION RESULTS / РЕЗУЛЬТАТЫ КОНТРОЛЯ** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Details and Results from 30 December 2020** | | | | | | | | | | | | | |
| **Section number/**  **Номер сечения** | **Drawing number/**  **Номер чертежа** | **Line / Tag N / Номер** | **Item description/**  **Участок контроля** | **Diameter, inch /**  **Диаметр, дюйм** | **Nominal thickness, mm/**  **Номинальная толщина, мм** | **South, mm/**  Юг, мм | **North, mm /**  Север, мм | **West, mm /**  Запад, мм | **East, mm /**  Восток, мм | **Top, mm /**  Верх, мм | **Bottom, mm /**  Низ, мм | **Extrados, mm /** Внешний радиус, мм | **Intrados, mm /**  Внутренний радиус, мм |
| 1 | TR01-M2-334-WK-P-DI-0042-001 | M2-3340-CM-052-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.00 | 8.13 | 7.65 | 8.95 |
| 1 | TR01-M2-334-WK-P-DI-0043-001 | M2-3340-CM-053-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.85 | 8.40 | 8.32 | 8.70 |
| 1 | TR01-M2-334-WK-P-DI-0044-001 | M2-3340-CM-054-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.95 | 7.82 | 8.06 | 8.52 |
| 1 | TR01-M2-334-WK-P-DI-0045-001 | M2-3340-CM-055-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.19 | 8.16 | 7.56 | 8.46 |
| 1 | TR01-M2-334-WK-P-DI-0046-001 | M2-3340-CM-056-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.20 | 7.80 | 8.22 | 8.80 |
| 1 | TR01-M2-334-WK-P-DI-0047-001 | M2-3340-CM-057-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.21 | 7.89 | 7.50 | 8.25 |
| 1 | TR01-M2-334-WK-P-DI-0048-001 | M2-3340-CM-058-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.74 | 7.68 | 8.34 | 8.94 |
| 1 | TR01-M2-334-WK-P-DI-0049-001 | M2-3340-CM-059-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.63 | 8.69 | 8.14 | 8.75 |
| 1 | TR01-M2-334-WK-P-DI-0050-001 | M2-3340-CM-060-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.16 | 8.20 | 8.41 | 8.90 |
| 1 | TR01-M2-334-WK-P-DI-0051-001 | M2-3340-CM-061-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.36 | 7.75 | 7.90 | 8.50 |
| 1 | TR01-M2-334-WK-P-DI-0052-001 | M2-3340-CM-062-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.35 | 7.85 | 7.95 | 8.10 |
| 1 | TR01-M2-334-WK-P-DI-0053-001 | M2-3340-CM-063-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.45 | 8.03 | 7.65 | 8.50 |
| 1 | TR01-M2-334-WK-P-DI-0054-001 | M2-3340-CM-064-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.07 | 8.00 | 8.01 | 8.94 |
| 1 | TR01-M2-334-WK-P-DI-0055-001 | M2-3340-CM-065-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.61 | 8.33 | 8.00 | 8.42 |
| 1 | TR01-M2-334-WK-P-DI-0056-001 | M2-3340-CM-066-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.80 | 8.12 | 7.57 | 8.86 |
| 1 | TR01-M2-334-WK-P-DI-0057-001 | M2-3340-CM-067-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.27 | 8.21 | 7.78 | 8.79 |
| 1 | TR01-M2-334-WK-P-DI-0058-001 | M2-3340-CM-068-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.71 | 8.01 | 8.22 | 8.20 |
| 1 | TR01-M2-334-WK-P-DI-0059-001 | M2-3340-CM-069-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.16 | 7.85 | 7.82 | 8.90 |

| **INSPECTION RESULTS / РЕЗУЛЬТАТЫ КОНТРОЛЯ** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Details and Results from 18 March 2021** | | | | | | | | | | | | | |
| **Section number/**  **Номер сечения** | **Drawing number/**  **Номер чертежа** | **Line / Tag N / Номер** | **Item description/**  **Участок контроля** | **Diameter, inch /**  **Диаметр, дюйм** | **Nominal thickness, mm/**  **Номинальная толщина, мм** | **South, mm/**  Юг, мм | **North, mm /**  Север, мм | **West, mm /**  Запад, мм | **East, mm /**  Восток, мм | **Top, mm /**  Верх, мм | **Bottom, mm /**  Низ, мм | **Extrados, mm /**  Внешний радиус, мм | **Intrados, mm /**  Внутренний радиус, мм |
| 1 | TR01-M2-334-WK-P-DI-0042-001 | M2-3340-CM-052-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.00 | 8.13 | 7.65 | 8.95 |
| 1 | TR01-M2-334-WK-P-DI-0043-001 | M2-3340-CM-053-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.85 | 8.40 | 8.28 | 8.70 |
| 1 | TR01-M2-334-WK-P-DI-0044-001 | M2-3340-CM-054-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.95 | 7.82 | 8.01 | 8.52 |
| 1 | TR01-M2-334-WK-P-DI-0045-001 | M2-3340-CM-055-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.19 | 8.01 | 7.56 | 8.46 |
| 1 | TR01-M2-334-WK-P-DI-0046-001 | M2-3340-CM-056-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.20 | 7.79 | 8.22 | 8.80 |
| 1 | TR01-M2-334-WK-P-DI-0047-001 | M2-3340-CM-057-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.12 | 7.89 | 7.48 | 8.25 |
| 1 | TR01-M2-334-WK-P-DI-0048-001 | M2-3340-CM-058-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.74 | 7.67 | 8.29 | 8.94 |
| 1 | TR01-M2-334-WK-P-DI-0049-001 | M2-3340-CM-059-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.58 | 8.69 | 8.14 | 8.75 |
| 1 | TR01-M2-334-WK-P-DI-0050-001 | M2-3340-CM-060-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.16 | 8.20 | 8.41 | 8.77 |
| 1 | TR01-M2-334-WK-P-DI-0051-001 | M2-3340-CM-061-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.25 | 7.75 | 7.90 | 8.50 |
| 1 | TR01-M2-334-WK-P-DI-0052-001 | M2-3340-CM-062-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.35 | 7.76 | 7.95 | 8.10 |
| 1 | TR01-M2-334-WK-P-DI-0053-001 | M2-3340-CM-063-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.45 | 8.03 | 7.61 | 8.50 |
| 1 | TR01-M2-334-WK-P-DI-0054-001 | M2-3340-CM-064-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.07 | 7.80 | 7.95 | 8.94 |
| 1 | TR01-M2-334-WK-P-DI-0055-001 | M2-3340-CM-065-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.61 | 8.33 | 8.00 | 8.42 |
| 1 | TR01-M2-334-WK-P-DI-0056-001 | M2-3340-CM-066-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.80 | 8.12 | 7.57 | 8.86 |
| 1 | TR01-M2-334-WK-P-DI-0057-001 | M2-3340-CM-067-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.27 | 8.14 | 7.78 | 8.79 |
| 1 | TR01-M2-334-WK-P-DI-0058-001 | M2-3340-CM-068-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.71 | 7.93 | 8.22 | 8.20 |
| 1 | TR01-M2-334-WK-P-DI-0059-001 | M2-3340-CM-069-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.16 | 7.83 | 7.82 | 8.90 |

| **INSPECTION RESULTS / РЕЗУЛЬТАТЫ КОНТРОЛЯ** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Details and Results from 15 December 2021** | | | | | | | | | | | | | |
| **Section number/**  **Номер сечения** | **Drawing number/**  **Номер чертежа** | **Line / Tag N / Номер** | **Item description/**  **Участок контроля** | **Diameter, inch /**  **Диаметр, дюйм** | **Nominal thickness, mm/**  **Номинальная толщина, мм** | **South, mm/**  Юг, мм | **North, mm /**  Север, мм | **West, mm /**  Запад, мм | **East, mm /**  Восток, мм | **Top, mm /**  Верх, мм | **Bottom, mm /**  Низ, мм | **Extrados, mm /**  Внешний радиус, мм | **Intrados, mm /**  Внутренний радиус, мм |
| 1 | TR01-M2-334-WK-P-DI-0042-001 | M2-3340-CM-052-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.00 | 8.08 | **7.60** | 8.92 |
| 1 | TR01-M2-334-WK-P-DI-0043-001 | M2-3340-CM-053-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | **7.82** | 8.36 | 8.26 | 8.65 |
| 1 | TR01-M2-334-WK-P-DI-0044-001 | M2-3340-CM-054-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.93 | **7.78** | 8.00 | 8.51 |
| 1 | TR01-M2-334-WK-P-DI-0045-001 | M2-3340-CM-055-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.16 | 7.93 | **7.53** | 8.42 |
| 1 | TR01-M2-334-WK-P-DI-0046-001 | M2-3340-CM-056-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.20 | **7.79** | 8.22 | 8.80 |
| 1 | TR01-M2-334-WK-P-DI-0047-001 | M2-3340-CM-057-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.10 | 7.84 | **7.45** | 8.22 |
| 1 | TR01-M2-334-WK-P-DI-0048-001 | M2-3340-CM-058-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.71 | **7.63** | 8.29 | 8.91 |
| 1 | TR01-M2-334-WK-P-DI-0049-001 | M2-3340-CM-059-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.53 | 8.66 | **8.11** | 8.73 |
| 1 | TR01-M2-334-WK-P-DI-0050-001 | M2-3340-CM-060-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | **8.14** | 8.20 | 8.35 | 8.73 |
| 1 | TR01-M2-334-WK-P-DI-0051-001 | M2-3340-CM-061-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.21 | **7.70** | 7.90 | 8.45 |
| 1 | TR01-M2-334-WK-P-DI-0052-001 | M2-3340-CM-062-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | **7.30** | 7.76 | 7.92 | 8.07 |
| 1 | TR01-M2-334-WK-P-DI-0053-001 | M2-3340-CM-063-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.41 | 8.00 | **7.56** | 8.46 |
| 1 | TR01-M2-334-WK-P-DI-0054-001 | M2-3340-CM-064-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.03 | **7.78** | 7.92 | 8.90 |
| 1 | TR01-M2-334-WK-P-DI-0055-001 | M2-3340-CM-065-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.57 | 8.30 | **8.00** | 8.39 |
| 1 | TR01-M2-334-WK-P-DI-0056-001 | M2-3340-CM-066-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.75 | 8.12 | **7.55** | 8.82 |
| 1 | TR01-M2-334-WK-P-DI-0057-001 | M2-3340-CM-067-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.24 | 8.10 | **7.78** | 8.76 |
| 1 | TR01-M2-334-WK-P-DI-0058-001 | M2-3340-CM-068-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | **7.68** | 7.93 | 8.20 | 8.17 |
| 1 | TR01-M2-334-WK-P-DI-0059-001 | M2-3340-CM-069-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.13 | 7.83 | **7.80** | 8.86 |

| **INSPECTION RESULTS / РЕЗУЛЬТАТЫ КОНТРОЛЯ** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Details and Results from 08 April 2022** | | | | | | | | | | | | | |
| **Section number/**  **Номер сечения** | **Drawing number/**  **Номер чертежа** | **Line / Tag N / Номер** | **Item description/**  **Участок контроля** | **Diameter, inch /**  **Диаметр, дюйм** | **Nominal thickness, mm/**  **Номинальная толщина, мм** | **South, mm/**  Юг, мм | **North, mm /**  Север, мм | **West, mm /**  Запад, мм | **East, mm /**  Восток, мм | **Top, mm /**  Верх, мм | **Bottom, mm /**  Низ, мм | **Extrados, mm /**  Внешний радиус, мм | **Intrados, mm /**  Внутренний радиус, мм |
| 1 | TR01-M2-334-WK-P-DI-0042-001 | M2-3340-CM-052-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.00 | 8.08 | **7.60** | 8.92 |
| 1 | TR01-M2-334-WK-P-DI-0043-001 | M2-3340-CM-053-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | **7.82** | 8.36 | 8.26 | 8.65 |
| 1 | TR01-M2-334-WK-P-DI-0044-001 | M2-3340-CM-054-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.93 | **7.78** | 7.93 | 8.51 |
| 1 | TR01-M2-334-WK-P-DI-0045-001 | M2-3340-CM-055-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.16 | 7.93 | **7.53** | 8.42 |
| 1 | TR01-M2-334-WK-P-DI-0046-001 | M2-3340-CM-056-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.20 | **7.63** | 8.08 | 8.80 |
| 1 | TR01-M2-334-WK-P-DI-0047-001 | M2-3340-CM-057-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.96 | 7.84 | **7.45** | 8.15 |
| 1 | TR01-M2-334-WK-P-DI-0048-001 | M2-3340-CM-058-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.71 | **7.63** | 8.18 | 8.91 |
| 1 | TR01-M2-334-WK-P-DI-0049-001 | M2-3340-CM-059-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.53 | 8.60 | **8.08** | 8.73 |
| 1 | TR01-M2-334-WK-P-DI-0050-001 | M2-3340-CM-060-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | **8.14** | 8.20 | 8.35 | 8.73 |
| 1 | TR01-M2-334-WK-P-DI-0051-001 | M2-3340-CM-061-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.08 | **7.70** | 7.80 | 8.45 |
| 1 | TR01-M2-334-WK-P-DI-0052-001 | M2-3340-CM-062-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | **7.30** | 7.76 | 7.92 | 8.07 |
| 1 | TR01-M2-334-WK-P-DI-0053-001 | M2-3340-CM-063-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.41 | 7.96 | **7.46** | 8.46 |
| 1 | TR01-M2-334-WK-P-DI-0054-001 | M2-3340-CM-064-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.03 | **7.68** | 7.92 | 8.90 |
| 1 | TR01-M2-334-WK-P-DI-0055-001 | M2-3340-CM-065-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.50 | 8.30 | **8.00** | 8.39 |
| 1 | TR01-M2-334-WK-P-DI-0056-001 | M2-3340-CM-066-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 7.75 | 7.96 | **7.55** | 8.82 |
| 1 | TR01-M2-334-WK-P-DI-0057-001 | M2-3340-CM-067-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.24 | 7.90 | **7.62** | 8.76 |
| 1 | TR01-M2-334-WK-P-DI-0058-001 | M2-3340-CM-068-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | **7.68** | 7.88 | 8.20 | 8.17 |
| 1 | TR01-M2-334-WK-P-DI-0059-001 | M2-3340-CM-069-8"-A21-BP | Elbow | 8 | 8,18 | - | - | - | - | 8.13 | 7.78 | **7.80** | 8.86 |

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| Examined by / Контроль провёл: | | Approved by / Протокол утвердил: | | Client representative /  Представитель клиента | |
| Name / ФИО | Morgulets Ivan | Name / ФИО | Kuryanau Dzmitry | Name / ФИО |  |
| Signature / Подпись |  | Signature / Подпись |  | Signature / Подпись |  |
| Date / Дата | 09.04.2022 | Date / Дата | 09.04.2022 | Date / Дата |  |
| Cert. № /  № серт-та | UT L II cert. No. 33436-2017  expire date: 02.06.22 | Cert. № /  № серт-та | UT L II cert. No 2B 230/20  expiry date 31.05.2025 | Cert. № /  № серт-та |  |

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| Annex 1 / Приложение 1  Inspection Drawing / Схема контроля  Sec. 1  Sec. 1 |
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| **From Chiller to rotoformers ZF-001 - 009 (Location 1-9)** |

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| Annex 2 / Приложение 2  Inspection Drawing / Схема контроля  Sec. 1  Sec. 1 |
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| **From Chiller to rotoformers ZF-010 - 018 (Location 10-18)** |

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| Annex 3 / Приложение 3  Inspection Drawing / Схема контроля  Sec. 1  Sec. 1 |
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