



ANNUAL REPORT 2020

NSAI TECHNICAL COMMITTEE – NSAI/TC 011

WASTEWATER ENGINEERING

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1 Introduction

The NSAI/TC 011 - Wastewater Engineering consultative committee currently monitors a wide range of standards related to the point of origin (collection) up to the point of disposal of wastewater, including treatment plants and the use of treated wastewater for purposes other than agricultural irrigation. The range of standards covered is vast and may have significant implications on the public's health and safety as well as the environment. The work of the committee also impacts upon the Department of Housing, Local Government and Heritage (DHLGH) Building Regulations Technical Guidance Document Part H - Drainage and Wastewater Disposal.

2 Scope of TC

NSAI/TC 011 is responsible for monitoring the work of CEN/TC 165 – Wastewater engineering and how the standards developed by CEN/TC 165 are to be implemented in Ireland, in particular harmonised standards (hENs) which are in line with the Construction Products Regulation (CPR – Regulation No. 305/2011). In order to do this, there are currently 4 active working groups (WGs) under the remit of NSAI/TC 011, each mirroring specific WGs within CEN/TC 165 the work of which have an impact on the Irish Wastewater industry.



The industry currently has 2 experts involved in international work

NSAI/TC 011 and its WGs also develop and update national documents such as S.R.66 - providing guidance to wastewater treatment products in compliance with the EN 12566 series of standards.

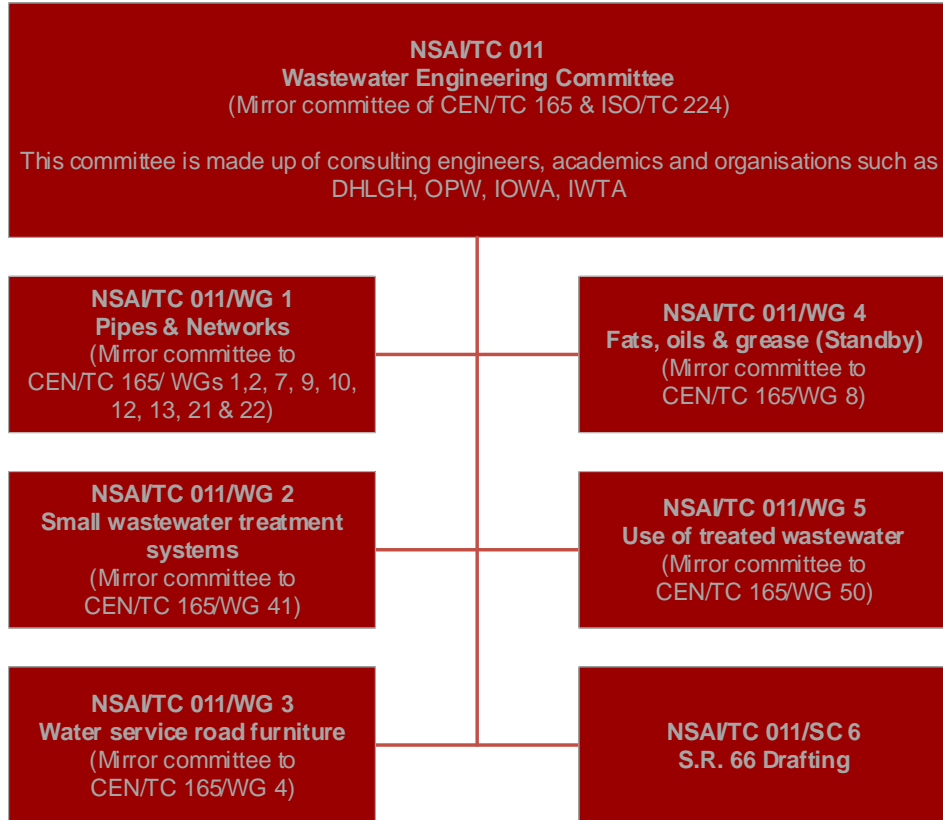
The committee and its working groups mirror the following international committees:

| Committee Name | Committee Title | Irish Mirror Committee |
|------------------------|--|------------------------|
| CEN/TC 165 | Wastewater Engineering | NSAI/TC 011 |
| CEN/TC 165 WG1 | General requirements for pipes | NSAI/TC 011/WG 1 |
| CEN/TC 165 WG2 | Vitrified clay pipes | |
| CEN/TC 165 WG7 | Steel Pipes | |
| CEN/TC 165 WG9 | Concrete Pipes | |
| CEN/TC 165WG10 | Installation of buried pipes for gravity drain and sewer systems | |
| CEN/TC 165 WG12 | Structural design of buried pipelines | |
| CEN/TC 165 WG13 | Renovation and repair of drains and sewers | |
| CEN/TC 165 WG21 | Drainage systems inside buildings | |
| CEN/TC 165 WG22 | Drain and sewer systems outside buildings | |
| CEN/TC 165 WG41 | Small type sewage treatment plants (< 50 inhabitants) | |
| CEN/TC 165 WG50 | Use of treated wastewater | NSAI/TC 011/WG 5 |
| CEN/TC 165 WG4 | Manhole tops, gully tops, drainage channels and other ancillary components for use outside buildings | NSAI/TC 011/WG 3 |
| ISO/TC 224 | Service activities relating to drinking water supply systems and wastewater systems | NSAI/TC 011 |

3 Structure and Membership

3.1 Structure

The Figure below illustrates the structure of the Committee:



3.2 Members

The members of NSAI/TC 011 in 2020 are listed below:

| Organisation | Role |
|----------------------------------|---|
| IOWA (Ash Environmental) | NSAI/TC 011 Committee Chair |
| Tricel | National committee member |
| Ejco | National committee member |
| Irish Water | National committee member |
| IWTA (Molloy Engineering) | National committee member |
| DHLGH | National committee member |
| Condron Concrete | National committee member |
| IOWA (Polylock) | National committee member & WG2 Chair |
| IWTA | WG2 & WG 5 committee member |
| TUD (adjunct lecturer) | WG2 committee member WG5 & WG6 Chair |
| Sulzer | WG1 committee member |
| Pipelife | WG1 committee member |
| Pipelife | WG1 committee member |
| Cubis Industries | WG3 committee member |

4 Summary of 2020 Activities

4.1 National

As in 2019, the work of the CEN/TC 165 WGs, which the NSAI/TC 011 closely monitors, was either limited or had stalled in 2020 due to the ongoing issues with citation of harmonised standards. As the majority of NSAI/TC 011's activity is linked to the development of harmonised standards (hENs), work at a national level in 2020 centred on submitting Ireland's position on how CEN/TC 165 should address the lack of citation of harmonised standards, (in particular revised hENs) in the European Commission's official journal (OJEU).

Consultation with NSAI/TC 011 committee members during the summer 2020 was carried out as a result of CEN/TC 165's request that NSBs provide a position on what the CEN TC should do on the topic of developing hENs. It was NSAI/TC 011's view that CEN/TC 165 and its WGs continue working on hENs and should "use the existing system and meet the Commission's requirements in the best possible way to be cited in OJ-EU". This was to ensure continuity and continued involvement of experts in the TC 165 WGs and not lose the expertise or work which has been done to date.

4.1.1 Meetings

Members attended the following meetings on-line (due to Covid-19 restrictions) in 2020:

| Meeting | Date |
|-------------------------|---------------------------------|
| NSAI/TC 011 | 27 th July 2020 |
| NSAI/TC 011 | 30 th September 2020 |
| NSAI/TC 011/WG 5 | 10 th November 2020 |

4.1.2 National Work

In 2020, NSAI/TC 011, and, in particular, it's WGs 2 & 6, awaited publication of the EPA's revised code of practice for small wastewater treatment systems. Publication of the EPA Code of Practice (CoP) would allow these WGs to formally begin the process of assessing the impact of the revised CoP and, whether or not S.R. 66 needed to be amended, so as to provide guidance on I.S. EN 12566 Part 7 - Tertiary treatment systems.

However, as publication of the EPA CoP was delayed and is expected in 2021, the assessment of the CoP and S.R. 66 has now been included in the 2021 work programme.

4.2 International

4.2.1 Meetings

Committee members attended the following international meetings:

| Committee Name | Location | Date |
|-------------------------|----------|----------------|
| CEN/TC 165/WG 50 | On-line | September 2020 |
| CEN/TC 165 | On-Line | November 2020 |

4.2.2 International Work

NSAI/TC 011/WG 5 members reviewed the second final vote draft of FprEN 16941-2 dealing with the use of treated grey water. WG 5 members also attended a meeting to progress the amendments to EN 16941-1:2018 - *On-site non-potable water systems - Part 1: Systems for the use of rainwater* to correct errors in that standard. The errors resulted in the development of the Irish National annex in 2019 to address these issues. CEN/TC 165/WG 50 has since invited Irish experts to advise on how best to correct the errors in EN 16941-1 with specific reference made to the Irish National Annex.

The NSAI attended the plenary meeting of CEN/TC 165 held in November 2020 where the main topic of discussion was the continued difficulties TC 165 has with getting hENs cited in the OJEU. It was decided that CEN/TC 165 WGs will be allowed to choose whether they think it appropriate to suspend their work or continue to work within the confines of the current system consistent with Ireland's position.

CEN/TC 165 and its WGs will also need to monitor the EC's revision of the Construction Products Regulation (CPR – Regulation No. 305/2011) and the CPR Acquis process as they progress during 2021 and beyond.

Environmental topics and issues were increasingly coming to the fore in 2020 and will likely impact all CEN/TC 165 WGs work and by extension NSAI/TC 011's work programme in the coming years. The items which need to be considered include the EC's Green Deal, revision of the Urban Wastewater treatment directive, standardisation needs related to micro plastics and the work of ISO 224 in respect to Stormwater, climate change and adaptation and ISO TC 282 work on Water reuse.

4.2.3 International Standards Reviewed

Ireland approved that the EN 124 standard and its parts be confirmed for another 5 years. A review of the second formal vote draft of FprEN16941-2 was carried out. The result of these reviews are reflected in the ballots taken in 4.2.4 below.

4.2.4 International Voting Results

| Reference | Result | Closed on |
|---|-----------|------------|
| Adoption of PWI for revision of EN 12566-1 | Approved | 06/06/2020 |
| Adoption of PWI for revision of EN 12566-3 | Approved | 06/06/2020 |
| Adoption of PWI for revision of EN 12566-4 | Approved | 06/06/2020 |
| Adoption of PWI for revision of EN 12566-6 | Approved | 06/06/2020 |
| Adoption of PWI for revision of EN 12566-7 | Approved | 06/06/2020 |
| Position regarding further procedure on hENs | Approved | 30/09/2020 |
| EN 124-1:2015 | Confirmed | 23/11/2020 |
| EN 124-2:2015 | Confirmed | 23/11/2020 |
| EN 124-3:2015 | Confirmed | 23/11/2020 |
| EN 124-4:2015 | Confirmed | 23/11/2020 |
| EN 124-5:2015 | Confirmed | 23/11/2020 |
| EN 124-6:2015 | Confirmed | 23/11/2020 |
| FprEN 16941-2 | Approved | 10/11/2020 |

4.3 Regulatory Development/Update

There were no regulatory developments in 2020 which affected the work of NSAI/TC 011 (see 4.1.2).

5 Irish Publications/Reviews

5.1 Publications

The Irish National Annex to I.S EN 16941-1:2018 *On-site non-potable water systems - Part 1: Systems for the use of rainwater* was published in December 2019.

5.2 Reviews

A review of the following Irish national documents was still on hold in 2020 due to the issues surrounding the CPR and harmonised standards:

1. I.S. 6:2004 - Concrete Sewer Pipes to be reviewed by WG1 upon publication of a revision to EN 1916;
2. I.S. 261:2013 - Water services road furniture – Requirements for cast iron covers and frames to be reviewed by WG3; and,
3. I.S. 420:2004 - Pre-cast Concrete Manholes to be reviewed by WG1 upon publication of a revision to EN 1917.

6 Work programme for 2021 onwards

At the International level, due to the continued uncertainty around harmonised standard development work, the focus of NSAI/TC 011 in 2021 will be on monitoring the activity of CEN/TC 165 to establish when work might begin again on harmonised standards. The suspension affects NSAI/TC 11 Working Groups, 1,2 and 3 and limits the progress that can be made on the revision/withdrawal of I.S. 6 and I.S. 420.

Further to this NSAI/TC 011 members will need to keep abreast of the changes being proposed as part of the EC's review of the Construction Products Regulation (CPR – Regulation No. 305/2011) and the CPR Acquis process launched in Q4 of 2020 as these will have a significant impact on harmonised standards, CE marking and the single market over the coming years.

NSAI/TC 11/WG 5 will continue its supportive role in amending EN 16941-1:2018 *On-site non-potable water systems - Part 1: Systems for the use of rainwater* by CEN/TC 165/WG 50.

Assessment of S.R. 66 to determine if it should incorporate I.S. EN 12566 Part 7 - Tertiary Treatment Systems and the reactivation of the NSAI/TC 011/WG 6 group is dependent on the publication of the EPA's code of practice for small wastewater treatment systems and the content therein regarding such systems.