**INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR**

**USE IN EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**TITLE: The Twenty Third Meeting of the ExTAG held remotely - 31st August 2021**

**and 01st September 2021**

**Circulated to: ExTAG – IECEx Testing and Assessment Group**

**Report of the Twenty Third of the ExTAG**

**held remotely.**

This document contains a Report of the 2021 ExTAG Remote Meeting, as well as an Annex A, “Action List”.

This document has been issued for information to ExTAG Members with a request that members please note the required actions.

***ExTAG Secretariat***

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| **AU** | Mohamed Abdelkrimi  Geoff Barnier  Justin Gavranich  Ajay Maira  Jim Munro  Gordana Ostojic | MSTC  Simtars  Ex Testing and Certification  Ex Testing and Certification  Jim Munro International Compliance Pty Ltd  TestSafe Australia |
| **AT** | Sebastian Willer | TUV Austria |
| **BR** | Wilson Bonato  Giovanni Hummel Borges  Roberval Bulgarelli  Henrique Burd  Christian Duarte  Eduardo Galera  Ruediger Roepke | NCC Certificações do Brasil Ltda.  HG Inspeçoes  Consultant  ‘Independent’  WEG  UL do Brasil  Consultant |
| **CA** | David Adams  Andrew Browne  Martin Cole  Kavinder Dhillon  Vijay Rangarajan  Dorin Stochitoiu | QPS Evaluation Services Inc.  Intertek  Hubbell  Lab Test Certification Inc.  Lab Test Certification Inc.  CSA Group |
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| **IL** | Ilan Cohen | ITL |
| **IN** | Ajit Karandikar  Ravi Paranjpe  Mohit Janoiya  Vikram Paranjpe | Karandikar  Karandikar  BIS  Karandikar |
| **IR** | Zahra Shadravanan | MB delegate |
| **IT** | Claudio Cafaro  Fedato Alessandro  Alessandro Fedato  Manuela Grassi  Paolo Luigi Paraboschi | IMQ  CESI  CESI  IMQ S.p.A  IMQ |
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| **ZA** | Paul Meanwell  Terine Orsmond  Regardt Zeelie  Eldon Kruger  Francoius Du Toit  Roelof Viljoen  Mark Sadler | ExMC Chairman/Komatsu Mining  MASC  MASC  MASC  MASC  MASC |

The Twenty Third Meeting of the ExTAG held remotely - 31st August 2021

and 01st September 2021

1. **Opening and Welcome**

***1.1* Opening and Welcome,** *ExTAG Chair*

The meeting commenced at 1200 Coordinated Universal Time (UTC) Day 1 Tuesday 31st August 2021.

The Chair, Dr Lienesch, introduced himself as the new Chair, advising that he hoped that, as he is new to the job, all goes well. He then welcomed all delegates and observers to the meeting saying good morning, good evening which ever was appropriate to delegate’s time zone and thanked them for attending under the very different circumstances due to the Covid Pandemic. He then acknowledged the following attendees the IECEx Chair – Mr. Paul Meanwell, the TC 31 Chair Dr Martin Thedens, the TC 31 Liaison to IECEx, Mr Mark Coppler, Members of the IECEx Executive, Members of IEC Conformity Assessment Board, CAB, Fellow ExTAG Members and with a special welcome to Delegates attending ExTAG for the first time. He continued that as our meetings continue to grow, and, to maintain the excellent reporting on the meetings, the Secretariat is planning to record an audio of this meeting but only for the purposes to enable them to prepare and confirm the report. He emphasised that this was not for any other purpose and would not be available for distribution. He also advised the meeting of the plan to display the decisions live at the end of each agenda item.

He then asked Mr. Amos, IECEx Secretariat, to advise regarding special points to be noted in conducting the meeting remotely. Mr Amos reminded the meeting of document ExMC/1728/Inf Notice of Meeting & General Information for the 2021 Series of IECEx Annual Meetings (to be held via web conference facilities). He advised that this document would provide an effective meeting tool but that if there were questions he would be happy to take e-mails.

Before moving on he invited Mr. Jasmin Omerovic, ExTAG Vice Chair, to say a few words. Mr Omerovic welcomed delegates in their times zones acknowledging that these were widely varied and then wished the delegates a successful meeting.

1. **Approval of the Agenda**

**ExTAG/650A/DA** Draft Agendathe Twenty Third Meeting of the ExTAG to be held remotely.

The Chair sought approval of the draft agenda advising that the latest Red Bar Version has been posted on the web site since 24th August 2021. He reminded the meeting that while in the past the ExTAG meeting had provided for a closed session for ExTAG members only, that is representatives of ExCBs and ExTLs, in finalising this agenda as there have been no request for items requiring a closed session none would be held.

The Chair continued that while noting that the Draft Agenda and meeting papers have been previously issued, we do have the following additional documents that have now been posted to the 2021 IECEx meeting website:

• Agenda Item 7.1 “Report from ExTAG WG1 – ExTRs Maintenance”

ExTAG(2021Remote/WG01)03

• Agenda Item 7.7 “Report from ExTAG WG14 – Certification of Ex Assemblies”

ExTAG(2021Remote/WG14)04

These tabled documents, previously referred to as “Green paper” Documents are available for download at the IECEx 2021 Meeting website.

The Chair asked for approval of the agenda with the inclusion of the 2 Green Papers for inclusion under Agenda Items 7.1, and 7.7 and 6.1 The Agenda was approved.

In conclusion the meeting recorded the following decision.

**Decision 2021/01**

Members approved the Draft Agenda of the 23rd ExTAG Meeting as circulated as ExTAG/650A/DA with the addition of Items 7.1, 7.7 and 6.1 to include Green Papers as follows:

* ExTAG(2021Remote/WG01)03)
* ExTAG(2021Remote/WG14)04)

1. **Report of the ExTAG Remote 2020 Meeting**

***3.1*** To note the Report of the last meeting held in Remote 2020, and subsequent action items from the meeting.

**Documents noted:**

* [**ExTAG/631/DL**](https://www.iecex.com/dmsdocument/3163) **–** Decision List -The Twenty Second Meeting of the ExTAG held in webinar format on 29th and 30th September 2020
* [**ExTAG/647/R**](https://www.iecex.com/dmsdocument/3231) **-** Report of The Twenty Second Meeting of the ExTAG held remotely - September 29th and September 30th 2020

The Chair asked the meeting to note documents ExTAG/631/DL – Decision List -The Twenty Second Meeting of the ExTAG held in webinar format on 29th and 30th September 2020 and ExTAG/647/R Report of The Twenty Second Meeting of the ExTAG held remotely - September 29th and September 30th 2020. As there were no comments on the Report during the session, or received after circulation, the Chair noted confirmation of the report and moved to the next item.

In conclusion the meeting recorded the following decision.

**Decision 2021/02**

Members noted the Meeting Report and Decision List from the 2020 ExTAG Meeting circulated as ExTAG/647/R and ExTAG/631/DL

***3.2***To note a report of the action items by the ExTAG Chair on the ExTAG 2020 Remote Meeting*.*

**Document noted:**

* [**ExTAG/651/R**](https://www.iecex.com/dmsdocument/3718) **–** Report on actions since 2020 ExTAG Remote Meeting

The Chair provided a status report on the actions arising from the Remote 2020 ExTAG Meeting. He suggested that, as the report had previously been circulated, there was no need to go through each item separately. He advised that there had been 21 actions in total to be followed-up and that they had mainly been completed, continuing, that those that hadn’t been completed were primarily ongoing while others were for discussion later during the current meeting.

The Chair referred the meeting to Action Item 21 advising that Dr Munro would provide the meeting with an update on the Action, but before that should anyone have any items needing to be clarified or commented on to please do so. There were no comments or clarifications. Dr Munro then provided a Powerpoint presentation on progress with the assigned action with one of the suggested actions being the revision of IECEx OD 012 which, he was pleased to advise, had progressed and that document ExMC/1735/DV Amendment to IECEx OD 012, Edition 2.0 had been issued for approval during the 2021 ExMC meeting for publication as Edition 3.0.

The Chair thanked Dr Munro for his presentation. He then asked that the meeting endorse the report of actions from 2020 meeting as presented in ExTAG/651/R.

In conclusion the meeting recorded the following decisions.

**Decision 2021/03**

Members endorsed the report from the ExTAG Chairman on the Action Items from the 2020 ExTAG Meeting as circulated as ExTAG/651/R.

**Decision 2021/04**

Members accepted a report from Dr Munro on progress with the assigned action regarding Decision Rule including a revision of IECEx OD 012.

### IECEx Equipment Scheme – Overview

The Chair invited the ExMC Secretary, Mr Chris Agius, to report on this agenda item, while noting that the secretary would provide more detailed information when going through the IECEx Report card in detail (ExMC/1732/R IECEx System Report Card – 2021) during the ExMC meeting later in the week. He continued that the report at this time simply provides an opportunity to learn the growth details

Mr. Agius reported that even though we are in a pandemic we still have 36 countries within the System and that business is continuing with sustained real growth. He continued that the report at this time simply provides an opportunity to learn of the growth details, in particular:

1. **Membership**

IECEx System Membership, as of 30th June 2021 stands at:

* **36** Countries as members of the IECEx Management Committee, ExMC
* With **four** separate Certification Schemes
  + IECEx Certified Equipment Scheme (Rules = IECEx 02)
  + IECEx Certified Service Facilities Scheme (Rules = IECEx 03-\*)
  + IECEx Conformity Mark Licensing Scheme (Rules = IECEx 04)
  + IECEx Certification of Personnel Competencies (CoPC) Scheme (IECEx 05)

and the IECEx Recognized Training Provider Program (RTPP)

* **IECEx Certified Equipment Scheme**
  + **60** Accepted ExCBs + 8 Applicants
  + **68** Accepted ExTLs + 7 Applicants
  + **7** Accepted ATFs + 1 Applicant
* **IECEx Certified Service Facilities Scheme**
  + **17** Accepted ExCBs + 3 Applicants
* **IECEx Conformity Mark Licensing System**
  + **14** Accepted License issuing ExCBs
* **IECEx Certification of Personnel Competencies (CoPC) Scheme**
  + **15** Accepted ExCBs + 2 Nominated Assessment Centres
* **IECEx Recognized Training Provider Program (RTPP)** 
  + **33** Recognized Training Providers (RTPs)

1. **Statistics – Certificates, Licenses and Reports**

At 30th June 2021 there were **121,837** Issued IECEx Reports, Certificates and Licenses across all the following four IECEx Schemes compared with 108,969for the same time last year (30th June 2020)– this represents an overall growth of **11.8%.**

The Chair commented it was very gratifying to see the real and consistent growth within the System. He then asked the meeting if there were any questions. Dr Munro asked if there had been any additional CBs in the Conformity Mark Licensing Scheme. The secretary advised that there hadn’t been any and that this would be discussed during the ExMC Meeting later in the week. He continued that a major change within the system had been the change to the IECEx logo from the two logos, double, to a single logo. Continuing that all Rules and ODs will have a single logo as will all future IECEx documents.

The Chair then asked the secretary to report on the new animated video, commenting that although not quite completed, he believed that it would prove to be an extremely valuable tool for the IECEx System. The Secretary advised the meeting that the preparation of the video is in the final stages. He continued that there will be translations available, once they have been verified, as subtitles. He then discussed the promotional advantage to bodies to include their own logo. Showing an example of this using the SGS logo. He advised bodies that should they wish to go down this path to contact Mr. Mike Roy at the secretariat. He continued that videos covering the 03 and 05 Schemes would be available in the future.

The Chair thanked the Secretary commenting that the System needs to go multimedia for people not familiar with what IECEx is doing. He asked if there were any comments or questions. Professor Xu Jianping, China, advised that his colleagues at NEPSI had been unable to access the video. Mr Roy, IECEx Secretariat, suggested that he would forward another platform to China. As there were no other comments the Secretary then gave a brief report regarding the IECEx Website activities since the last meeting in 2020, including noting the re-arrangement of public information, and the introduction of blogs and news.

The Chair thanked the Secretary for a most comprehensive and informative report.

In conclusion the meeting recorded the following decision.

**Decision 2021/05**

Members accepted, with several questions, the report from the IECEx Secretariat on an overview of the IECEx Equipment Scheme activities since the 2020 meeting. Members also appreciated the IECEx animated video update

**5 Technical Items for general discussion within ExTAG**

The Chair explained that the purpose of this agenda item was to discuss technical items arising from feedback since the previous ExTAG meeting with the aim of ensuring a consistent approach by all ExCBs and ExTLs.

***5.1* Leakage Current Ratings**

**Documents discussed:**

* [**ExTAG/633/Inf**](https://www.iecex.com/dmsdocument/3523) **–** Discussion paper regarding dielectric strength tests (proposal from NEPSI)
* [**ExTAG/633A/Inf**](https://www.iecex.com/dmsdocument/3566) **-** Discussion paper regarding dielectric strength tests, (Combined proposal of NEPSI and PTB)

The Chair commenced this topic by advising that he would be leading the discussion. He reminded the meeting that during the 2020 ExTAG meeting, Professor Xu Jianping had proposed the topic on leakage current rating for discussion. At the time it was agreed that PTB and NEPSI would prepare a discussion paper on the topic for discussion within ExTAG and possible discussion within IEC TC 31 CAG. The Chair advised that PTB and Nepsi had both prepared documents for discussion. The Chair advised that he had prepared a PowerPoint presentation for discussion. The Chair asked for the presentation to be opened and then proceeded to present an explanation. In concluding his presentation, he suggested the following expected outcomes be considered by the meeting -

1.In case that the leakage current rating may influence the test result of dielectric strength test, it should be stipulated in IEC60079-7.

2.In case that the leakage current rating does not influence the test result of dielectric strength test, it should be removed from IEC60079-11, IEC60079-5, IEC60079-18, and other standards, to minimize the misunderstanding.

3.To bridge a gap between the above mentioned 2 solutions, in case that this will vary from product to product, rated voltage to rated voltage, environment to environment, then it is better to give more details in some specific standards.

The Chair concluded the presentation suggesting that to achieve a consistent testing and certification practice according to the IEC standards mentioned above, an ExTAG decision sheet could, as an interim solution, be generated to clarify and unify this issue, based on discussion and clarifications from IEC TC 31 CAG meeting. He then asked Professor Xu Jianping, Nepsi, if he would like to say a few words. Professor Xu Jianping thanked the Chair for a very professional presentation. He began by noting that dielectric tests requirements and criteria in 60079 standards differ with some have leakage requirements, and some not. He continued that he would like the floor to discuss the topic although it will probably be a task for MT31 or possibly a DS in an effort to unify test methods and find consistent test results

The Chair then asked do we forward to TC31 or prepare a DS? Mr Maira, ExTC, referring to the slides sought an explanation of a.c and not d.c. Why? The Chair responded depends on the product with further discussion taking place. After some discussion Mr. Slowinske, UL LLC, reminded the meeting that in ExTAG there are Guidance Documents but suggested for IEC 60079-7 TC31is the best venue to ensure consistency rather than a DS as a change to the Standard is required. Dr Munro supported Mr Slowinske suggesting that it is safer for it to be dealt within TC31 rather than a DS, perhaps to be dealt with by an adHoc WG within the CAG. Mr Hong Zhao, Nepsi, sought discussion on how to carry out dielectric test from different conditions. He provided examples of two different laboratories with differing results. The Chair thanked Mr. Hong Zhao for his examples and concerns commenting that this is typical and said these examples are why we need clarification. Mr Ludlam, FME, began by advising that his comment is more a procedural comment, he informed the meeting that 79-11 is trying to prepare an FDIS document for balloting early next year and would appreciate an answer before writing the FDIS so that in the future there is no need for a clarification sheet or an amendment. The Chair thanked Nick and noted that Dr. Munro had also had a comment. Dr Munro said he would like to revise his earlier suggestion that rather than an adhoc WG there is a very able TC 31 Hight Voltage WG suggesting that they should be tasked with the job.

The Chair asked that we have a final decision do we ask TC 31 to clarify, is this better than a DS? The Secretary suggested that given the information received from Mr. Ludlam that the matter be forwarded to TC31. Mr Martin Thedens, convenor of the WG, took the floor agreeing that TC31 will discuss. The Chair already participating suggested that some of the ExTAG colleagues may wish to be involved.

In conclusion the meeting recorded the following decision.

**Decision 2021/06**

Members considered the PTB and NEPSI discussion papers on the topic of Leakage Current Ratings as circulated as ExTAG/633/Inf and ExTAG/633A/Inf and agreed that IEC TC31 be requested to consider the issues raised during this meeting of ExTAG. Dr Lienesch is tasked to take this matter to IEC TC 31 taking into account the issues raised during this meeting of ExTAG.

***5.2* Increasing Ambient Temperatures**

**Document discussed:**

* [**ExTAG/652/Inf**](https://www.iecex.com/dmsdocument/3763) **–** Discussion paper regarding increasing ambient temperatures

The Chair, when introducing this topic advised that a discussion has taken place among various experts from ExCBs and TC 31 on the topic of “Increasing Ambient Temperatures”. Mr Justin Gavranich of Ex Testing and Certification AU, after consultation with several interested parties from AU, TC31 and IECEx, has prepared a discussion paper for presentation and consideration during the 2021 ExTAG meeting. He the invited Mr Justin Gavranich of ExTC to lead the discussion.

Mr Gavranich began thanking the Chair and the Secretariat for the running of meeting hoping that this topic will promote robust discussion and then come to plan as to how we can discuss this issue moving forward. He then referred the meeting to the discussion paper the general gist being of increased frequency of heat wave events. He continued that with the latest IPCC report indicating the global climate is on a worst-case trajectory for future projections how do we respond? Although he continued his examples were of AU the issue is global. The Chair invited Mr Mark Coppler to comment. Mr Coppler stated that this paper, in line with a string of TC 31 emails in July when the temperatures in Canada went so high, set plans in that string for discussion at both this meeting and TC31. It has been discussed in past and it was agreed to revisit again but we need input from both the user, who ultimately pays for transition, and the regulator who will determine what is safe enough.

The Chair asked for comments. He then asked the secretary. The Secretary commented that listening to Mr Coppler and Mr Gavranich it is something we need to address. We cannot address fully today but perhaps look at forming a small adhoc WG. He suggested that the WG could then come back to the ExTAG with more concrete proposals. In concluding he commented that it is a very good paper which has raised some very good items needing discussion.

The Chair then sought discussion from the floor. Mr Kavinder Dhillon, Labtest, asked if we are asking to change ambient temperature. Mr Gavranich commented that this is a very good question to put an adhoc WG suggesting that ambient temperature may change in the future. Mr. Ravi Paranjpe, KLCS, commented that this is extremely important issue and must be addressed immediately. The Chair asked if Justin would agree to lead the adhoc group. Justin stated that he was happy to lead this group providing in principle support of the ExTAG Decision Sheet.

In conclusion the meeting recorded the following decision.

**Decision 2021/07**

Members considered the discussion paper on the topic of “Increasing Ambient Temperatures” prepared by Mr Justin Gavranich of Ex Testing and Certification AU, as circulated as ExTAG/652/Inf, and noted the discussions already underway in IEC TC31. Members provided in principle support that this matter does need to be addressed and agreed to form an ad hoc group (to be led by Mr Gavranich and assisted by Mr Kelly) tasked to prepare recommendations for further consideration by ExTAG. Members of ExTAG are requested to contact Mr Gavranich by end of September 2021 to offer their assistance.

***5.3* Subcontracting of Tests**

In response to questions raised by some ExTLs, over recent times, this agenda item was included as a reminder of the situation within the IECEx certified equipment Scheme concerning use of test data obtained from testing laboratories other than the ExTL responsible for the tests (ie subcontracting).

**Document discussed**:

* **ExTAG/662/Inf** – Discussion paper regarding subcontracting of Tests by ExTLs

Chris Agius, IECEx Executive Secretary prepared and presented this discussion paper advising that the purpose of this paper is to remind the members of:

- There is a clear difference between Subcontracting and Contracting

- That Technical Capability Documents (TCDs) do allow for subcontracting of certain tests under certain circumstances

- That ExTLs MUST have procedures in place to evaluate a Lab they wish to use as a subcontractor and also procedures to monitor them. This must be recorded internally by the ExTL

- That ExCBs can only use ExTLs where there is an agreement in pace and has the arrangement has been approved by ExMC. It is not permitted for an ExCB to simply use any ExTL in the scheme, without first having the cooperation approved by ExMC – re IECEx 02

Mr Agius presented the contents of the paper, recalling past discussions from the 2014 ExTAG meeting and refereeing to document ExTAG/325/CD, use of subcontractors. He also reminded members of the minimum testing capability requirements of TCDs.

Mr Agius further highlighted the changes in ISO/IEC 17025 and use of the term “Outsourcing” and noting how this term is also used within ISO/IEC 17021-1, which applies to Certification Bodies.

Time was spent focusing on the specific requirements of ISO/IEC 17025 and the changes from Edition 2 to Edition 3.

In conclusion, Mr Agius advised that this paper does not contain any proposals for changes but rather a reminder of the obligations of ExTLs and requirements of ISO/IEC 17025 which forms part of the IECEx Scheme rules.

The Chair thanked Mr Agius with various members expressing their appreciation for this updated paper and agreed to record the following decision.

**Decision 2021/08**

Members noted the discussion paper as circulated as ExTAG/662/Inf and then endorsed this paper as an IECEx reference point on this matter. Members also noted the opportunity for revisions of the TCD via ExMC WG2.

**6 Performance feedback from ExCBs and ExTLs (Restricted participation)**

***(Agenda Item 6- Restricted participation will be timed to be most convenient to Delegates attending the meeting)***

The Chair advised that as no requests had been received for discussion under this item that the meeting move on to the next Agenda Item. Before doing so however he reiterated that bodies have an obligation, according to IECEx Scheme Rules, to co-operate closely and effectively.

**7**  **ExTAG Working Group Status - Review**

To review the status of ExTAG Working Groups and current activities

***7.1* ExTAG WG 01, Preparation and maintenance of ExTRs**

Green paper Document (Tabled) as ExTAG WG1 Report

[ExTAG(2021Remote/WG01)03](https://www.iecex.com/dmsdocument/3776)

The Chair reminded the meeting of the work of ExTAG WG 01 which is tasked to create, revise and update the Ex Test Reports to be used within the IECEx System advising that Mr. Paul Kelly, has provided the WG report as a green paper document ExTAG(2021Remote/WG01)03. He advised that Mr. Kelly will also introduce Mr. Scott Kiddle as the UL proposed new Convener for WG1. The Chair then invited the convenor of the ExTAG Working Group 01, Mr. Kelly, to give a report. Mr. Kelly commenced by thanking the Chair. He then advised that although there had been no meetings of ExTAG WG01 since the last Remote Meeting held in 2020 work had been accomplished with ExTR Blanks posted for all published IEC Ex standards available for use under the IECEx Certified Equipment Scheme with the following new ExTR documents having been posted-

• Ex Test Report for IEC 62990-1, Edition 1.0 (with DS links involving other than 2020 and 2021 DS documents)

• Ex Test Report for IEC 60079-10-1, Edition 3.0 (with DS links involving other than 2020 and 2021 DS documents)

Along with the following revised ExTR documents having been posted…

• Ex Test Report for IEC 60079-6, Edition 4.1 (with DS links involving other than 2020 and 2021 DS documents)

• Ex Test Report for IEC 60079-29-1, Edition 2.1 (with DS links involving other than 2020 and 2021 DS documents)

And the following ExTR documents currently under development…

• “Format 2.0” Ex Test Reports for IEC 60079-0 and IEC 60079-11, with DS links

• “Format 2.0” Ex Test Reports other than for IEC 60079-0 and IEC 60079-11, with DS links involving 2020 and 2021 DS documents

He advised that links had not been provided for Decision Sheets issued 2020-2021.

He then continued that the revisions of OD 010-1 Operational Document - Guidance for the development, compilation, issuing and receipt of ExTRs Part 1: Development and posting of blank IECEx Test Report (ExTR) Documents and OD 010-2 Operational Document - Guidance for the development, compilation, issuing and receipt of ExTRs Part 2: Procedures and guidance. (Ed 3.0) are in the final stages of preparation and will be available for ballot soon.

The Chair then proposed acceptance of Mr. Scott Kiddle as the Convenor of WG01 commenting that it is always good to have a proposed new convenor form the outgoing convenor. The meeting supported the proposal for Mr. Kiddle to be the incoming ExTAG WG 01 Convenor. The Chair then invited Mr. Kiddle to say a few words. Mr Kiddle commenced by stating that he was not new to the work of ExTAG WG01 as he had had the advantage of having worked with closely with Mr. Kelly recently. He continued that he had assisted in the linking of DS into blank ExTRs and had also helped in preparation of the revision of OD 010 parts 1 and 2. He thanked the meeting for its support.

The Chair congratulated Mr. Kiddle thanking him for taking on this important role. He then asked the meeting to formally record a special note of thanks for the many many years of dedicated service to the work of WG01 by Mr. Kelly and his employer UL. He continued that the maintenance and development of ExTR blanks have afforded the IECEx and the global community a great deal of assistance.

Mr. Kelly then continued his report with discussion taking place in relation to the ongoing maintenance of the linking of DS into the blank ExTRs. He suggested that once a DS is approved perhaps the secretariat, or the DS originator, link the DS in the ExTR. He asked that a decision be made regarding this responsibility. Dr. Munro suggested that a Deputy Convenor might be considered. Mr Kelly commented that Mr. Kiddle could take this decision later but that the work would not seem to warrant this. After much discussion on this issue the Secretary suggested that the item was something that Mr. Kiddle and the Secretariat could discuss taking into account comments from the meeting.

Mr Kelly continued that at present all ExTR blanks have the double logo asking if it is necessary for these to be replaced by the single logo. The Secretary advised that there was no need to go back to the old documents. Mr Kiddle thanked the secretary for clarifying the decision.

Before the report was concluded Mr. Ajay Maira, ExTC, expressed his concern that the latest ExTRs blanks do not have links to the DS. Mr Kelly advised that these should be completed by the end of 2021 as during Covid there had been no links but that it is the responsibility of the TL to address all requirements. Mr Mark Coppler, TC 31 Liaison, suggested that TLs go to the IECEx web site and do the search by number suggesting that there is really not much of a problem. He continued that we are not talking about DS that change the requirements of the Standard. The Chair asked if there were further comments as there were none the report from the convenor concluded.

In conclusion the meeting recorded the following decisions.

**Decision 2021/09**

Members accepted the report (tabled as Green Paper ExTAG(2021Remote/WG01)03 from ExTAG WG 01 prepared by the Convener, Mr Paul Kelly.

**Decision 2021/10**

Members indicated their full support for Mr Kelly’s proposal that Mr. Scott Kiddle take over the role as ExTAG WG01 Convener and appreciate Mr Kiddle agreeing to take on this role.

**Decision 2021/11**

The meeting recorded a special note of thanks to Mr Paul Kelly for the many years of dedicated service to the work of ExTAG WG01 in the development and maintenance of ExTR blanks.

**Decision 2021/12**

Mr Kiddle will work with the Secretariat to clarify the processes of inserting new ExTAG DS links in existing ExTR blanks and also of inserting any applicable ExTAG DS links into new ExTR blanks.

***7.2* ExTAG WG 03 Documentation and Drawing Requirements**

**Document considered**:

• ExTAG/654/R Report from ExTAG WG 03 – Documentation and Drawing Requirements

The Chair invited the Convenor, Mr. Ron Webb, to report. Mr Webb advised that there had been no WG meetings held during the year and there had not been a great deal of work done. He advised that a few outstanding comments from AU had been put into a draft document which was circulated to the group. He continued that it had generated some comments and more activity mainly on non-electrical and assemblies which he needs to take back to the WG.

He commented that an outstanding action relating to what information should be transmitted to other organisations when sending a test report, for perhaps a local certification, and what documents should be included was to be addressed in the revision of OD 010-2 but as yet, as Mr. Kelly has reported, it has not been completed. Mr. Scott Kiddle indicated to Mr. Webb that he knew where the information would come from and would be included. Mr. Webb advised that once this was completed draft edition 7 would be circulated.

The Chair invited comments discussion. The Secretary asked Mr. Webb if a meeting of the WG is planned to advance the work. Mr Webb advised that to date email had been used but that should a meeting be required an online meeting could be setup but that hopefully the work would be concluded by the first quarter of 2022.

In conclusion the meeting recorded the following decision.

**Decision 2021/13**

Members accepted the report from ExTAG WG 03 Convener, Mr Ron Webb as circulated as ExTAG/654/R, noting the status of their work and the likely conclusion during Q1 of 2022.

***7.3*** **ExTAG WG 04 Uncertainty of measurement**

**Documents considered:**

* [**OD 012**](https://www.iecex.com/dmsdocument/1593)ExTAG Guide for Application of Uncertainty of Measurement to conformity for laboratory tests carried out under the IECEx System OD 012
* [**ExMC/1735/DV**](https://www.iecex.com/dmsdocument/3665) Amendment to IECEx OD 012, Edition 2.0

The Chair commenced by reminding the meeting that this Working Group was set up to build a proposal concerning the Uncertainty of Measurement and the use of test data in test reports. He continued that the current publication of OD 012 was published in 2009, ten years ago, and therefore a revision of the document is required. He then invited the Convenor of the WG, Mr. David Stubbings to report. Mr Stubbings started by thanking members of the WG for the work carried out. He advised that an online meeting had been held to confirm the scope and actions of the revision. He continued that a draft document had then been prepared in the Spring of 2020 and circulated to the WG. Some clarifications/changes were sought prior to circulation of the draft document to the ExTAG. After circulation minor corrections were identified as some sections were requested to be removed with the information already being included in other IEC guides or were not included in the WG remit. All requests were adopted and the task completed. The main changes to the guide included update reference of IEC Standards and Guides, removal of some section included in other MOU IEC Guides, the addition of an Annex for IECEx assessors reviewing ExTL measurement uncertainty values and ExTL internal calibration procedures to include Measurement of Uncertainty in the calibration certificate for each item. The finished document was sent to the IECEx Secretariat for circulation.

The Chair thanked Mr Stubbings and asked if there were any questions. Mr. Richard Schuller, DEKRA, NL, had a question regarding Annex C of the document *Calibration guidance for measurement uncertainty (Normative)* of OD 012. After discussion Mr Stubbings agreed with the Chair that change can always be discussed. The Chair asked that Mr Schuller send a detailed suggestion the WG Convenor. Dr. Jim Munro expressed interest in Annex B of the document asking if Mr Stubbings would be available to assist in a future assessor training session in relation to the Annex. Mr Stubbings agreed.

Before concluding Mr Mark Coppler suggested that an editorial review of the document take place. The Secretary advised that the document would be going to the IEC for editing prior to being published but that the Secretariat would also be looking at the document before forwarding to IEC. He continued that the question for the group is whether the document, which has an ExMC number meaning that it is listed for consideration by MC later in the week, move forward for publication or given the comments from Mr. Schuller and Mr Stubbings the document not go forward. He continued that we would like to hear from the ExTAG Chair if ExTAG support the document going forward or are we suggesting the request for the WG to do more work on document? Can we go ahead to publish the document and then get more updates down the track? Ms Katy Holdredge, a member of the WG, stated that the US would like to see the document published as it has been around for a considerable time. Dr Munro advised support for the document once it has been tidied up. The Chair agreed that ExTAG recommend that document go forward publication with Mr Schuller to provide a proposal for future consideration by the WG. The Chair thanked the meeting for the discussion particularly to Mr. Stubbings and the group.

In conclusion the meeting recorded the following decision.

**Decision 2021/14**

Members accepted the report from ExTAG WG 04 Convener, Mr David Stubbings and agreed to recommend to the ExMC that the revision of IECEx OD 012 (as circulated as ExMC/1735/DV) proceed to publication.

The meeting also agreed that further changes can be proposed for a subsequent revision of IECEx OD 012. Mr Schuller to provide a proposal regarding Annex C.

***7.4*** **ExTAG WG 06 Rules of procedures for Testing at Other Locations**

**Document noted**

* [**OD 024**](https://www.iecex.com/dmsdocument/1588) **Edition 4.0** IECEx rules of procedure covering testing, or witnessing testing at a manufacturer’s or user’s facility
* <https://www.iecex.com/members-area/testing-register/>

The Chair reminded the meeting that ExTAG WG 06 is tasked with the role of maintaining OD 024 IECEx Rules of Procedure covering testing. He also reminded the meeting that Edition 4.0 of OD 024 is now published with changes incorporated into the new edition such as introduction of new On-Line Testing Register and inclusion of Annex B “*Guidance for IECEx ExTLs and ExCBs on the use of the Online Register for data entry and management*” . He then asked the Convenor of the WG, Mr Agius, IECEx Secretary, to report. Mr Agius advised the meeting that his report will be brief as a meeting has not been held since the last year. He noted the publication of Edition 4 of OD 024. He then displayed some notes on the screen recapping some of the changes to OD 024

* Changes included in Ed 4.0 of OD 024 include:
  + Introduction of the new OD 024 Testing Register on-line
  + Clarification over the ExTLs requirement governing “Continued Validity” re Cl 4.8.2
  + Reformatting of the document to cater to new Annex B “Guidance for IECEx ExTLs and ExCBs on the use of the Online Register for data entry and management

He then referred the meeting to the implementation of the IECEx OD 024 Testing Register included on a new section on the IECEx web site. Starting with this he displayed the page which is now publicly available enabling the Certification Bodies/Test laboratories to insert the information themselves. He continued that he has received some comments from WG 06 members proposing some editorial changes to OD 024, which will be included in the next discussions for updating. The Chair suggested that no decision required but asked if there are comments please do so. Mr Galera, UL BR, proposed that the WG reconvene to review the open wording contained in the document relating to the use of third-party facilities suggesting that this is too open at the moment and may lead to wrong interpretation. Mr Agius asked Mr Galera for the Clause number to which he referred. He advised that the Clause that he was referring to is 3.12 Third Party Test Facility. Mr Galera asked Ms Holdredge, UL, to also add comments, she suggested that the document be updated to clarify that it is not intended to replace the Rules that we have in place for ATFs. Mr Agius agreed with the decision being recorded to clarify the definition of “third party test facilities”. Ms Holdredge reminded that the original request was to reconvene the WG to clarify the definition this was also recorded. Mr Agius asked that any other suggestions be sent to him as Convenor for consideration by the WG once it has been reconvened.

Before closing Mr. Mark Amos, Secretariat, advised that access to the OD 024 online register is a separate password as it is a separate site. ExCBs and ExTLs need to apply for a separate password as the password for the OCS site will not work. You do not have automatic access you need to request as the password is based around a person’s email address.

The Chair thanked the Convenor.

In conclusion the meeting recorded the following decision

**Decision 2021/15**

Members noted the publication of IECEx OD 024 Edition 4.0 and a summary by the Convener of the key changes regarding the new online register. The meeting also noted feedback from the use of IECEx OD 024 and requested that the WG reconvene to clarify the definition of “third party test facilities”.

***7.5*** **ExTAG WG 10 Proficiency Testing**

**Documents noted/considered:**

* [**ExTAG/655/R**](https://www.iecex.com/dmsdocument/3745)Report from Tim Krause, Convenor ExTAG WG 10, Proficiency Testing.
* [**ExTAG/656/CD**](https://www.iecex.com/dmsdocument/3735)Draft revision of OD 202 IECEx Proficiency Testing Scheme Ed 3.0

The Chair reminded the meeting that ExTAG WG10 have been overseeing the operation of the IECEx Proficiency Testing Program. He then asked Mr. Tim Krause of PTB, Convener of WG10 to present a report on activities including the latest Programs and outcomes. Mr Krause thanked the Chair. He referred the meeting to his report ExTAG/655/R and also went on provide a presentaion. He advised that despite Covid the 2019/2020 was completed on schedule which had been very gratifying. He continued that the PT Workshops 2020/2021 at NEPSI and at PTB had been organised in the form of web conferences and had been held in November 2020 and January 2021. He commented that althoug successful he hoped that inn the future they could be held in house. He informed the meeting that the Start of program cycle 2021/2022 with the roll out of two new programs "Flameproof Joints (FJ) and Small Component Temperature (SCT) - Test Round 2021” had commenced in March 2021. He then advised the meeting that the following programs of the previous program cycles have been closed:

* Flame Transmission - Test Round 2013
* Temperature Classification - Test Round 2013
* Electrostatic Charge - Test Round 2015
* Intrinsic Safety - Test Round 2015
* Pressurized Enclosure - Test Round 2017
* Explosion Pressure - Test Round 2017

He continued that the reasons for this were the expiry of the test samples and the disproportionately high effort to produce new test samples that meet the homogeneity requirements and are comparable to the original old test samples. The effort to keep more than four programs active in parallel is extremely high and not target-oriented.

The programs that are currently available are:

* Flameproof Joints - Test Round 2021
* Small Component Temperature - Test Round 2021
* Tests of Enclosures - Test Round 2019
* Battery Testing - Test Round 2019

He then provided the meeting, in detail, the results of TE2019 and BT2019. He concluded by reminding the meeting that all laboratoreis are required to be involved in the program.The meeting was asked to respond. There were a number of questions. AU advising that given lockdown in NSW they had been unable to attend the laboratory for quite a number of weeks and therefore testing may not be carried out on time. Mr Krause advsied that there would be a buffer time and that if it was not possible to measure in one year then an indivdual report would not be a problem. Dr Munro and Mr Gabriel spoke relating to Intrinsic Safety referring to OD202 commenting that every asessor looking at a Test Lab may not have the experience. Does the body have the right to object to the assessor? Mr Agius advised that bodies do have the right to object but he advsied that the appointment of assessors is carried out by the Executive Secretary which goes to great lengths to ensure that the asessor/team appointed is appropriate, that there is, for example, no Conflict of Inetest, that they have the appropriate skill requirements to carryout the assessment.

The Chair then moved discussion to the revision of OD 202 asking if there were any concerns. Mr Agius advised that he would appreciate discussion on the area of subcontracting. There followed considerable discusion from the meeting with Mr Jasmin Omerovic making the point that we might want to take into account other Proficiency Programs than run under IEC giving examples such as temperature measurement testing etc., Mr Agius agreed this was a good point as it makes good sense to recognise programmes that may be occuring in other schemes. Continuing saying that we need to consider this as there are well established programs in other schemes. The Chair suggetsed that as we need to make a recommendation to the ExMC he would like an outcome to forward. Mr Agius suggested that we may need another round or, if comfortable, we could make any necessary adjustements. The Chair asked if there was further comment. Ms Holdredge, Mr Dhillon and Dr Munro added to discussion . As a result of this discussion the Chair suggested to Mr Krause, as WG 10, that a rethink of OD 202 might be necessary asking if he agreed? It was then agreed that WG10 prepare a revised edition of OD 202. Mr Agius suggested that any other items members might want discussed an dthey contcat Mr Krause. The Chair thanked the WG 10 Convenor.

In conclusion the meeting recorded the following decisions

**Decision 2021/16**

Members accepted the report from ExTAG WG10 Convener, Mr. Tim Krause as circulated as ExTAG/655/R.

**Decision 2021/17**

In considering ExTAG/656/CD, members agreed to request ExTAG WG10 to consider the comments from this meeting in preparing a further revision of IECEx OD 202. Key areas of comment were the recognition of participation in other proficiency testing programs and to clarify requirements in the situation of sub-contracting of testing arrangements and also tests without an asterisk in the TCD.

***7.6* ExTAG WG12 Retention of Records, re OD 207**

**Document Noted:**

* [**OD 207**](https://www.iecex.com/dmsdocument/2375) Edition 2.0 - Guidance on the Retention of Records, current edition

The Chair invited Mr Jasmin Omerovic as Convenor to report. Mr Omerovic began by saying that his report would be brief. He advised that the OD 207 Ed.2 had been approved and published last year with the biggest change to Ed.1 being in Annex A List of affected records. He continued that the WG had not met since the last ExTAG Meeting. He then suggested that as the document had been in use for some time feedback to the WG would be appreciated, particularly from assessors. He commented that he had considered that the document had been mostly focused on the explosion safety arena, as expected, and not dealing with some general areas of 17065 and 17025 such as agreements, quotes and application forms etc., and that this could be something for consideration in the future revision. The Chair asked if there were questions. Dr Munro, ExAG Convenor and IECEx Lead Assessor, provided feedback from recent assessments regarding the use of Annex A

which includes not just a period of retention but a reference period as to when the period starts. As this is new to the previous edition it is important for bodies to take notice of the reference period when their documenting their retention system. Mr Omerovic agreed with Dr Munro’s comments suggesting that we need also to define a starting point if we don’t have a starting point then the period doesn’t make any sense.

The Chair thanked the Convenor.

In conclusion the meeting recorded the following decision

**Decision 2021/18**

Members accepted a verbal report from the Convener, Mr Jasmin Omerovic and noted the publication of IECEx OD 207, Edition 2.0 with key changes being to Annex A.

Members and Assessors are invited to submit feedback from their use of IECEx OD 207.

***7.7* ExTAG WG 14 Certification of Ex Equipment Assemblies**

The Chair invited the Convener, WG 14, Mr Kelly to report. Mr. Kelly began by reminding the meeting that the Working Group, as a result of discussion during the Remote ExTAG Meeting 2020, had been placed standby and as a result no meetings had been held. He then advised however that it is intended that a joint meeting between IEC/TC 31 PT 60079-46 and ExTAG WG14 will be held before the end of 2021 in the development of the next edition of IEC 60079-46. He continued that issues for consideration are concerns expressed by IEC/TC 31 AG 55 in the report “Specific Conditions of Use”, regarding Equipment assemblies and would ask for Mr Mark Coppler to propose to the AG 55 Convenor that the issues be provided to this WG so we can help address them. The Chair asked Mr Coppler for comment. Mr Coppler provided a response regarding the concerns expressed by IEC TC31 AG55, concerns over some IECEx certificates issued and the expectation of the market when they see a certificate covering assemblies, such as:

- Concerns whether or not ExCBs are checking the conditions of safe use of the individual pieces of equipment

- Whether or not a detailed inspection is being done as part of the IEC 60079-46 evaluation

- Expectations by the market that ExCBs should be conducting all Electrical tests including IR for motors.

Mr Kelly suggested that perhaps we require a Decision Sheet to precede the next edition of the next edition of the Standard, not changing requirements, but which will express what IECEx expects. Mr Coppler responded that the minimum right now, knowing it will be discussed in TC 31, is for IECEx to advise ExCBs of complaints that inspections by competent persons and required tests are not being completed or are missing and this, along with the additional changes in 46, can be brought under control. Mr Agius informed the meeting that the secretariat has also been in communication with AG 55 advising that some of the questions raised relate to certification in a general sense, and that clarification not only within IECEx but also of outside IECEx and the expectations of the end customer in receiving these. He asked that Mr. Kelly and Mr Coppler identify the clarification in the next edition as this would be helpful regarding inspection. He continued that we need to identify the actual issues and then, IECEx will provide feedback to TC31. Mr Agius suggested a joint meeting between IECEx and TC31 which he commented is well overdue. Should we focus on this? Mr Coppler agreed. Mr. Thierry Houeix reminded the Meeting that a Draft DS ExTAG/661/CD – Draft Decision Sheet Information relevant to particular protection Ex 60079-46 into the quality management system is listed for discussion under Item 9.3. The Chair agreed to hold discussion on this later. Mr Kelly requested that ExTAG WG14 be included in providing comment on the document. After further discussion Mr Kelly asked that the decision be taken that ExTAG WG14 be reactivated to hold a remote meeting as soon as possible, to take an open discussion on the issue and better understand what the issues are, and, determine if any additional information is required to support a consistent approach among ExCBs. Mr Agius suggested that given the discussion there is agreement for the WG to be reactivated and that the secretariat would process the reactivation on the web site.

The Chair thanked the Convenor.

In conclusion the meeting recorded the following decisions

**Decision 2021/19**

Members accepted a report from ExTAG WG 14 Convener, Mr Paul Kelly, (as tabled as Green Paper ExTAG(2021Remote/WG14)04) in which Mr Kelly outlined a number of issues for further ExTAG consideration regarding the application of IEC TS 60079-46.

Mr Coppler provided a response regarding concerns expressed by IEC TC31 AG55 as listed as ExTAG WG14’s issue #1.

ExTAG WG14 is to be reactivated and are requested to meet (possibly with the PT 60079-46) before the end of 2021 to discuss the issues listed for ExTAG further consideration and input to IEC TC 31 discussions. The IECEx Secretariat (assisted by Mr Coppler and Mr Kelly) is tasked to communicate the concerns of AG55 to IECEx ExCBs and to remind of the need to check for Specific Conditions of Use information included in certificates.

**Decision 2021/20**

The IECEx Secretariat is tasked to provide ExTAG members with a discussion paper regarding the work of IEC TC 31 AG55 on the topic of Specific Conditions of Use following the October 2021 IEC TC 31 meetings.

***7.8* ExTAG AdhocWG1** ***Modular concept for electrical Ex Equipment***

**Document noted:**

* [**OD 034**](https://www.iecex.com/dmsdocument/1584)Operational Document - Guidance on the preparation of IECEx Equipment Certificates and Reports covering more than one identifiable item of equipment, (current Ed 3.0)

The Chair reminded the meeting of the work of this Adhoc group had concerned the approval and publication of OD 034 Operational Document - Guidance on the preparation of IECEx Equipment Certificates and Reports covering more than one identifiable item of equipment to the ExMC Ed.3 The Chair advised that this was simply for noting but if there are any questions please feel free to ask. As there were no questions he suggested moving the next topic.

In conclusion the meeting recorded the following decision

**Decision 2021/21**

Members noted the publication of IECEx OD 034, Edition 3.0.

**8 ExTAG Decision Sheets – Current Status**

***8.1* Current Status**

***8.1.1* To the importance of ExTAG Decision Sheets and their location**

**Document Noted:**

* [**ExTAG/659/Inf**](https://www.iecex.com/dmsdocument/3764) **–** Presentation by Mr. Jasmin Omerovic

The Chair invited ExTAG Vice Chair, Mr Jasmin Omerovic, to present on the topic of ExTAG Decision Sheets. Mr Omerovic commenced that it is important to remind ourselves of the importance of the role of Decision Sheets and where we can find the documents on the IECEx Web site. Mr Omerovic presented a PowerPoint presentation which covered topics including

* why we use Decision Sheets - because they are a part of the Certified Equipment Scheme mandatory requirements.
* Important point that DS cannot be used to change/modify, correct or make interpretations of requirements in IEC or IEC/ISO standards
* Explanation of the OD 035 which provides a procedure to generate, discuss, report and publish ExTAG Decision
* How to locate the Decision Sheets on the web site and the use of the Excel Spread sheet

Mr Mark Amos suggested that there is a need to clarify that Decision Sheets are mandatory as he has been asked about this on a number of occasions. Mr Omerovic responded that it needs to be emphasised that Decision Sheets are mandatory.

Mr Agius thanked Mr Omerovic for the informative presentation as a timely reminder of the importance and use of Decision Sheets. He commented that there is an immense amount of work involved in the preparation and final posting of Decision Sheets because they are mandatory. He continued that a considerable amount of work is carried out behind the scenes by Christine Kane of the Secretariat and now with Maria Brodel who assists the ExTAG Chair. He also expressed his thanks to Mr Mark Coppler, TC 31 liaison, and all of TC 31 for their contribution/ comments. The Chair asked if there were any questions. As there were none the Chair moved to the next topic.

No decision recorded

***8.1.2* Decision sheets and Draft DS dealt with since the 2020 ExTAG meeting**

**Document Noted:**

* [**ExTAG/657/Inf**](https://www.iecex.com/dmsdocument/3742) **–** Draft Decisions Sheets dealt with via correspondence including those that were withdrawn since 2020 Remote Meeting

The Chair introduced this item covering ExTAG Decision Sheets worked on during the last year dealt with via correspondence. He commented that 2 Decision Sheets had been withdrawn but more importantly 8 had been published. He then asked the Mr. Agius, as this was for noting only, if there was a need to record a decision. Mr Agius suggested that it was important to note that the report had been endorsed. The Chair asked if there were any questions. As there were none the Chair moved to the next topic.

In conclusion the meeting recorded the following decision

**Decision 2021/22**

Members noted the list (as circulated as ExTAG/657/Inf) of ExTAG Decision Sheets and Draft DS dealt with via correspondence since the 2020 ExTAG meeting and endorsed the report.

**8.2** **Decision Sheets now falling under the 5year review, that require confirmation.**

***8.2.1* Decision Sheets from 2015**

**Document Considered:**

* [**ExTAG/649A/R**](https://www.iecex.com/dmsdocument/3732)– Revised Report and Reconfirmation of Decisions Sheets falling under the 5 year review (2015)

The Chair introduced this topic by reminding the meeting that during the 2020 ExTAG meeting it was agreed that the ExTAG Chair and Deputy Chair consider reconfirmation of Decision Sheets from 2015. He advised that he and the Vice Chair had prepared the report ExTAG/649A/R by contacting the originators when possible, for comments. He reported that most groups suggested that the DS be retained. He continued that it was clear that ExTAG DS 2015/017 and ExTAG DS 2015/001 had been withdrawn but that there is some confusion relating to ExTAG DS 2015/014. He asked if Mr Sinclair as originator to assist. Mr Sinclair advised that ExTAG DS 2015/014 should be withdrawn and that the revision of the document had been prepared and included as the Annex contained in this report, ExTAG/649A/R. Mr Agius suggested that the Annex be prepared and circulated as revision of DS 2015/014 for comment in accordance with OD 035. Mr Amos, Secretariat, asked that a previous request to withdraw SFC Decision Sheets had not been completed as the documents were still visible on the site. He will advise which DS after the meeting. Mr Kelly, ExTAG WG01, commented that the DS were not to be withdrawn but simply to be posted under the right scheme. Mr Amos commented that during the SFC meeting the three DS had been discussed 1 to be withdrawn not replaced 1 was to be replaced and one needs the status be checked. The Chair asked if there were further comments Mr. Kelly asked why a Decision Sheet is withdrawn, was it wrong? The Chair suggested that this should be discussed under Item 8.3.

The Chair then reminded the meeting that most of the DS listed remained active, 2 had been withdrawn but there was discussion in particular relating to DS 2015/006 as the originator, Kiwa, was not available. What do we do? Mr Agius suggested in such a situation the ExTAG Officers and the IECEx Secretariat consider and report back to ExTAG. Mr Sinclair’s revision of DS 2015/014 to be circulated as Draft DS for comment according to OD 035.

In conclusion the meeting recorded the following decision

**Decision 2021/23**

Members noted the reconfirmation of a list (as circulated as ExTAG/649A/R) of ExTAG Decision Sheets falling under the five year review and agreed with all recommendations contained in the report

AND

Tasked the IECEx Secretariat to circulate the revised ExTAG DS 2015/014 (Annex A of the report) to members inviting input for a revision according to the IECEx OD 035 process

AND

Agreed to assign the review of ExTAG DS 2015/006 to the ExTAG Officers and the IECEx Secretariat and to report back to ExTAG

***8.2.2* To re-confirm the following Decision Sheets, now falling under the**

**5 year review**

| **Number** | **Standard No.** | **Clause/Subject** | | **Issue Date** |
| --- | --- | --- | --- | --- |
| DS 2016/002 | IEC 60079-0 All Editions  IEC 60079-11 All Editions | | Application of Failure Analysis such as FMEA in intrinsic safety “i” | 2016 11 01 |
| DS 2016/001 |  | | Enhanced clearance and creepage distances for equipment of Level of Protection “ec”. | 2016 01 01 |

Th Chair introduced this item by referring to the list and asking the meeting if there are there any reasons why these DS should not be reconfirmed. Are there any comments on these Decision Sheets? Mr Nick Ludlam commented in relation to DS 2016/002 (IEC 60079-11) that the DS should remain as the next edition of the Standard has not yet been published nor has the current edition been modified so the DS should remain. The Chair thank Mr Ludlam for the statement. It was also advised that DS 2016/001 will need revising if the current MT wording goes ahead

The following list of Decisions Sheets are due for re-confirmation under the 5 year reconfirmation maintenance procedures. Members will be asked to re-confirm the following DS.

In conclusion the meeting recorded the following decision

**Decision 2021/24**

Members reconfirmed DS 2016/002 and DS 2016/001

***8. 3*  Review of process for the preparation and approval of Decision Sheets.**

**Document Considered:**

* [**ExTAG/658/CD**](https://www.iecex.com/dmsdocument/3766) **–** OD 035 Draft Rev A procedure to generate, discuss, report and publish ExTAG Decision Sheets Edition 2.3

The Chair and ExTAG Officers are proposing updates to OD 035 in light of experience and feedback and recommend ExTAG support the amendments. He asked Mr. Omerovic, ExTAG Vice Chair, to go through the draft revision of the OD 035. He then opened the floor for discussion. What does it meant to be withdrawn? Mr Kelly gave examples of linking DS in the ExTR particularly in relation to 60079-11 concluding that a DS should never be withdrawn but, as Mr Sincliar has done, a DS can be revised. Mr Ludlam agreed that a DS should never be withdrawn stating the DS 2016/22 for example will always exist. There followed much discussion relating to the withdrawing of DS. Mr Kelly and Mr Ludlam agreed that DS should never be withdrawn. Mr Gabriel advised that MTs, when preparing revisions of Standards, looked at DS relating to the particular Standard to see if there is a way to solve the reason as to why a DS was issued in the first place. He continued, thereby when a new edition of a Standard is published, then the DS should no longer be required. There was further discussion with comments from Mr Schuller, Mr Gauthier and Mr Gavranich who suggested whether the term “Archived” rather than “Withdrawn” would be more appropriate. Mr Barnier commented that a DS is explicit to the edition of the Standard and it should remain current as a DS to be withdrawn only if there is an error in the document. Mr Agius displayed the Excel Spread sheet, as seen earlier, which identifies which edition of the Standard the DS relates to saying that some of the remarks so far suggest the DS should be explicit to the edition and this is exactly what is intended and is covered in the Excel Spreadsheet. He thanked Mr Garbriel that on the Standard side the DS is taken into account when revising the Standard. Mr. Agius reminded the meeting that it is at this time a discussion draft and the originators will take back the comments and look to update the draft and circulate again, or, create a WG. Mr. Kelly made further suggestions and as a result of discussion the decision was taken to form an AdHoc WG. The Chair agreed that this would help solve the problems as it cannot be solved in the short term. Mr. Omerovic suggested, as mentioned by Professor Xu Jiamping, that we should also look at other schemes. Mr Kelly agreed to assist in the AdHoc WG as did Mr Kiddle, the incoming WG01 Convenor, with Mr Agius suggesting to also include Mr Coppler TC 31 Liaison.

In conclusion the meeting recorded the following decision

**Decision 2021/25**

Members considered a proposal (as circulated as ExTAG/658/CD) for the revision of IECEx OD 035 and agreed that further work is required by an ad hoc group (Convened by ExTAG Chair and assisted by Messrs Omerovic, Kelly, Kiddle and Coppler and the IECEx Secretariat) to clarify the criteria and process for maintaining and reviewing ExTAG Decision Sheets.

**9 ExTAG Proposed Decision Sheets in progress**

***9.1* Documents Considered:**

* [**ExTAG/635A/CD**](https://www.iecex.com/dmsdocument/3692) **–** Field modular approach for Ex Equipment
* [**ExTAG/648/CC**](https://www.iecex.com/dmsdocument/3693) **–** Compilation of comments on ExTAG/635/CD

The Chair advised the meeting that these documents had been prepared by PTB and UL LLC. Mr Slowinske advised that he would present on behalf of both bodies. He commenced saying that the Draft DS was a result of collaboration between PTB and UL LLC. He reminded the meeting that the original document, ExTAG/635/CD, had contained 3 questions and 3 answers. He advised that some of the comment on the Draft DS ExTAG/635/CD thought that the Draft went too far in some areas and should be referred to the AdHoc WG on Modular Concept. As a result, and taking these comments into account, the decision was taken to remove Questions 2 and 3 so now there is only Question 1. Questions 2 and 3 have been referred to Dr Detlev Markus, Convenor AdHoc WG on Modular Concept. Also, as a result of comments received, the original scope in the first draft listed IEC 60079-0 and IEC 80079-34 in the scope, 80079-34 has subsequently been removed from the scope as the requirements for the auditor, when doing a quality audit, is no longer applicable. He advised that the document is in line with comments from TC 31 and is now in good shape and ready to go forward.

The Chair asked for questions/comments. Mr Ajay Maira was concerned as to who will take the role of manufacturer and role of responsibility of marking which has not been addressed completely. Mr Slowinske acknowledged that there were some comments on this which they had tried to address in the compilation of comments. He continued that we are talking about just simple actions to be performed as described in instructions from the manufacturer. The DS says these instructions need to be clear, to be reviewed by Test lab/Certification Body and to be controlled. A user can then use these simple instructions to finalise the assembly. Using these instructions as a user, is not doing manufacturing but simply putting pieces together. Mr Maira then asked a question relating to the quality requirements of 80079-34. Mr Slowinske responded that a quality audit of assembly is not required acknowledging that in the previous draft this had been unclear. Mr Teather followed on that he had recently seen a certificate for an Ex “d” enclosure that did not include manufacturer information. He continued that he would expect to see at least the procedure number and the revision of the certificate. The Chair asked if Mr Slowinske agreed these should be contained? Mr Slowinske agreed. He then suggested to making a change to the second bullet point in the hope that this slight change would enable the document to go forward for publication. After further discussion on this the Chair asked Mr Agius if it is possible to make a slight revision to the Draft DS without recirculating. Mr Agius advised that it was possible to make slight changes, but major changes would require more work and for the document to be circulated once again. He suggested that although not perfect the document, with the following change “to require reference to ‘detailed instructions’ in the certificate” could go forward for publication should the meeting agree, and, with further work to be carried out later if required. The Chair then asked Mr Slowinske and Dr Markus to prepare a revised document for publication. They agreed to do so. Following on further discussion Mr Agius suggested that with the slight change the document go forward.

The Chair asked the meeting if the way forward as discussed was agreeable? It was agreed.

In conclusion the meeting recorded the following decision

**Decision 2021/26**

Members considered

* the draft Decision Sheet circulated as ExTAG/635A/CD and
* the associated Compilation of Comments on ExTAG/635/CD (refer ExTAG/648/CC)

and agreed that the draft Decision Sheet proceed to publication as circulated as ExTAG/635A/CD incorporating a change to the second item in the “Answer” section of draft to require reference (ID & version #) to ‘detailed instructions’ in the certificate.

***9.2*** **IEC 60079-6 High Voltage Testing**

**Document Considered:**

* [**ExTAG/663/CD**](https://www.iecex.com/dmsdocument/3767) **–** Draft Decision Sheet.

The Chair began by advising that a problem is coming up because of a new Annex to IEC 60079-6. He continued that this having been bought to his attention by Dr Munro he then asked Dr Munro to present. Dr Munro as background raised by AU last year but hasn’t moved since then. He realised that a solution may come from ExAG route. The Chair became involved in this problem given his expertise as convenor TC 31 which deals with High Voltage and so in conjunction we have put together a draft proposal for a DS. Fr Munro also referred to Mr. Bill Lawrence, Convenor of WG 22, who provided some feedback given that ultimate responsibility for publishing the amendment, or the detail of it, will go through that WG. He continued that we have therefore incorporated feedback in the proposal received. He then went on to explain that in IEC 60079-6 Edition 4, Amendment 1 it shows in the scope a significant increase in voltage allowed for Ex “o”Level of Protection “oc” from 15 kV AC RMS or DC and up to 245 kV AC RMS or DC. Associated with this, it introduces additional standards such as IEC 60071 (all parts) Insulation co-ordination and IEC 60076-3 Power transformers – Part 3: Insulation levels, dielectric tests and external clearances in air. Dr Munro then gave a detailed explanation of the proposal. The Chair then advised that the idea for the Annex had come some years ago from BR because they face the problem on how to connect offshore installations on the sea with the shore a solution is needed. A special section not typical for normal installations which is the reason why the Annex was prepared. The question is if you have special product how is it possible for ExCBs and ExTLs to process how do bodies get this amendment into their scope. The question is as to what will be the process for 60079-6 4.0 to include scope to 4.1 noting that already a few have gone through? Referring to the answer included in ExTAG/663/CD. Dr Munro referred to Edition 8 of TCD which he advised provided additional guidance on expected competence. The Chair then asked for questions/comments. Mr Mark Coppler commented that the document looks okay but would want it to be sent to WG 22. He commented that the DS is more about how IECEx is going to operate more about a process. Ms Katy Holdredge agreed that it is more about how we do assessments and consider referencing as an OD for assessments. Dr Munro agreed that it was a good suggestion as we use DS in a slightly different way procedural or information. After comments received from Mr Kelly and Mr Omerovic questioning if a DS was the correct format, Mr Agius reminded the meeting that Decision Sheets relate not only to Standards, mostly to Standards, but look at the example of DS 2017/005 Use of Legacy data. Mr Justin Gavranich suggested that the DS be put in place and that it could be withdrawn when, and if, an OD is prepared stating that the guidance is required now. Mr Agius commented that the main objective is for a common approach, Dr Munro agreed suggesting that he was prepared to tweak wording on the document.

In conclusion the meeting recorded the following decision

**Decision 2021/27**

Members considered the draft Decision Sheet circulated as ExTAG/663/CD and agreed that it proceed according to IECEx OD 035 procedures taking note of the points raised during this meeting such as noting that:

* a reference to an existing IECEx Operational Document may be a more appropriate approach, and
* there is a need for clarification of the “additional information” requirement, and
* there this is no need for a special assessment (that is subject to ExMC vote) associated with a scope extension

The meeting indicated in-principle-support for the approach provided in the existing draft but also noted the need to take account of any feedback from the IECEx OD 035 process.

***9.3***

**Document Considered:**

* **[ExTAG/661/CD](https://www.iecex.com/dmsdocument/3744) – Draft Decision Sheet Information relevant to particular protection Ex 60079-46 into the quality management system**

The Chair invited Mr Thierry Houeix as an originator to introduce this topic. Unfortunately, Mr Houeix could not be understood having difficulty with his sound. The Chair sought a solution. Mr Agius suggested that as the document had been issued well in advance of the meeting then perhaps it be circulated via OD 035. The Chair then asked if there were any questions. Ms Katy Holdredge advised that following discussion with Labtest, based on a particular situation experienced, they would suggest that the proposal being discussed, in addition to going to the membership, also go to ExTAG WG14. The Chair then asked for any further questions. There were none

The Chair thanked the Convenor.

In conclusion the meeting recorded the following decision

**Decision 2021/28**

Members considered the draft Decision Sheet circulated as ExTAG/661/CD and agreed that it proceeds through the IECEx OD 035 process with ExTAG WG14 given the opportunity to comment.

**10** **New topics (suggestions for topics to be dealt with during the next ExTAG Meeting)**

The Chair commenced by asking for suggestions for the next meeting. Mr Ajay Maira took the opportunity advising the meeting that a customer had recently asked about using electronic files rather than paper which would have all the information in an electronic file for example a CAD file. He asked what would be the reception of the group would be in allowing such kind of documents as a control document in a Test Report and Certificate. The Chair agreed that this was a very good topic and suggested that it be taken on board for the next meeting. Mr Agius suggested that Mr Maira prepare a paper for discussion.

In conclusion the meeting recorded the following decision

**Decision 2021/29**

The meeting supported Mr Maira’s proposal for a discussion on the acceptance of electronic files for drawings etc., and tasked Mr Maira to prepare a discussion paper (noting that ExTAG WG 03 for IECEx OD 017 needs to be consulted)

**11 Contact with other International and Regional Bodies – Status review**

**Document noted:**

* [**ExMC/1606/Inf**](https://www.iecex.com/dmsdocument/3715) **–** IEC Admin Circular AC AC/23/2020

The Chair called on the IECEx Executive Secretary Mr Agius to provide a report to the meeting on the situation with cooperation with International Laboratory Accreditation Cooperation (ILAC) and International Accreditation Forum (IAF). Mr Agius referred the meeting to the ExMC/1606/Inf document. He briefly highlighted items of interest.

Mr Agius concluded by reminding the meeting how national accreditation under the framework of ILAC and IAF are used within the IECEx Schemes especially regarding surveillance assessments of bodies.

The Chair thanked Mr Agius and called for any questions or remarks. There were none.

Report by IECEx Executive Secretary was noted – no decision recorded

**12 Matters for proposal to ExMC**

The Chair advised that he would be preparing a report, as usual, to present during the ExMC Meeting. He then asked Mr Agius to further advise the meeting on this item. Mr Agius explained that this is a standing agenda item just in case there are any other matters/proposals that the meeting wished taken to the coming ExMC Meeting. He advised that to date no proposals had been received. Mr Justin Gavranich, AU, suggested a potential proposal relating to the formation of the AdHoc WG discussed under Item 5.2 Increasing Ambient Temperature. He continued that although this WG has been formed under ExTAG a wider stakeholder engagement is necessary and the WG would be happy for members from the MBs to participate, or, as well as any other interested parties.

Mr Agius commented that this is a good point as a significant item we should be reporting and we need to ensure that this be taken into account. Make sure in our reporting that this item is included.

**Decision 2021/30**

The meeting requested that the ExTAG Chair advise the ExMC of ExTAG Decision 2021/07 and that additional stakeholder (other than ExTLs and ExCBs) involvement in the ad hoc group is invited.

**13** **Other Business**

The Chair invited Mr Jasmin Omerovic to speak. Mr Omerovic advised that he will speak briefly on this topic which is one of Europe’s well kept secrets or more precisely a secret in the European Accreditation world. He continued that in Europe it is a legal requirement to comply not only with ISO/IEC17065 but also with elements of ISO/IEC 17021-1. He suggested that, via our IECEx Rules and ODs, it would be appropriate to make clear reference to ISO/IEC 17021-1 essentially to show that when we carry out our quality surveillance audit of a manufacturer, we are in compliance with 17021-1 as well as 17065. He continued it would be appreciated for IECEx to take this on board. Mr Agius suggested that in OD 025 we are in effect complying with the spirit of ISO/IEC 17021-1 however agreed that it is appropriate to draw the information out. He suggested that ExTAG therefore request ExMC WG01and ExMC WG05 to consider this aspect for revise the System’s OD’s and Rules to make a clear reference. After discussion there was a suggestion that WG01 and WG05 be tasked with this work. Mr Omerovic was happy with this as the matter, as stated earlier, is a legal requirement in Europe and therefore needs to be addressed. Mr Amos advised that IECEx ExSFC is already looking at this with a proposal to ExMC having been made.

In conclusion the meeting recorded the following decision

**Decision 2021/31**

Members noted the presentation from Mr Omerovic on the topic of IECEx QMS auditing and the suggestion that the relevant IECEx Rules and ODs be revised to make a clear reference to ISO/IEC 17021-1 and asked that the ExMC task ExMC WG01 and ExMC WG05 to consider this. It was noted that this matter is already being considered by the IECEx ExSFC and a proposal has been made to the ExMC for IECEx 03-\* revisions.

**14 Confirmation of next meeting, year and place**

The Chair referred this item to Mr Agius to report. Mr Agius reminded the meeting that the ExTAG Meeting is normally aligned with ExMC meeting, however ExTAG members are asked to consider whether this should continue. The meeting agreed that this be continued. Mr Agius then went on to discuss the possibility of Hybrid meeting as due to Covid and countries at different stages of opening reminding the meeting that the 2022 was being hosted by QPS in Canada. He asked the meeting if they had any concerns with this or would they support this approach? The meeting agreed to this approach. Mr Agius then asked if a representative from QPS wished to speak. Mr Adams from QPS advised that due to cost QPS have withdrawn their offer to host the 2022 meetings. This information was a surprise to the meeting. Mr Adams apologised on behalf of QPS. There followed discussion on possible alternatives with Mr Agius advising that he would comeback soon. The Chair advised that we need to await developments and the situation of the global pandemic but did note the list of host countries for the following meeting

2022 – To be advised

2023 – UK

2024 – Brazil

2025 – Japan

Members noted that QPS have withdrawn their offer to host the 2022 meetings.

As an alternative, members supported the possible use of a hybrid meeting approach if we have a host location and members are able to travel. Members also supported the preference for convening the ExTAG meeting in conjunction with the ExMC meeting.

**15 Close of Meeting**

The Chair in declaring the meeting closed, 7 minutes early, thanked attendees and observers. He commented that he had very much appreciated the open and frank discussion that had taken place and for the professionalism of those attending. Concluding that he wished to thank Mr Jasmin Omerovic as Deputy Chair, Maria Brodel and the Secretariat for their support over the year. He then asked Mr Omerovic if he wished to say a few words. Mr Omerovic commented that the Chair had conducted a very successful first meeting he also thanked the Secretariat. Mr. Agius congratulated the Chair on a very fruitful first meeting in difficult circumstances. He then personally thanked the secretariat staff for their work behind the scenes.

| **Action**  **No.** | **Agenda Item** | **Action** | **By Whom** | **Status** |
| --- | --- | --- | --- | --- |
| **1** | **5.1** | The meeting agreed that the topic of Leakage Current Ratings circulated as ExTAG/633/Inf and ExTAG/633A/Inf, along with issues raised, be forwarded to IEC TC 31 by ExTAG Chair, Dr Lienesch. | ExTAG Chair  Dr. Frank Lienisch | . |
| **2** | **5.2** | After discussion on *ExTAG/652/Inf Increasing Ambient Temperatures*, prepared by Justin Gavranich, AU, the meeting agreed to form an Ad Hoc group with Mr Gavranich, as Convenor assisted by Mr Paul Kelly, US. | ExTAG Secretariat to add Ad hoc WG to the IECEx Web Site |  |
| **3** | **5.2** | ExTAG WGAdhoc Increasing Ambient Temperatures to prepare recommendations for further consideration on the above topic by ExTAG and then report back at the next ExTAG Annual Meeting. | Convenor  Mr Justin Gavranich |  |
| **4** | **5.2** | Members of ExTAG are requested to contact Mr Gavranich by end of September 2021 to offer their assistance. | ExTAG Members |  |
| **5** | **5.3** | Members noted the discussion paper as circulated as ExTAG/662/Inf and then endorsed this paper as an IECEx reference point on this matter. | Secretariat |  |
| **6** | **5.3** | Members agreed, as a result of discussions on ExTAG/662/Inf, that a revision of the TCD via ExMC WG02 be considered. Mr Richard Schuller agreed to prepare an example for the removal of the \* from various tests contained in the current TCD. The example will be circulated within the ExMC WG 02 for consideration. | ExMC WG02 Convenor  Ms Katy Holdredge  And Mr Richard Schuller |  |
| **7** | **7.1** | Mr Kiddle ExTAG WG01 Convenor work with the Secretariat to clarify the processes of inserting new ExTAG DS links in existing ExTR blanks and also of inserting any applicable ExTAG DS links into new ExTR blanks. | Mr Scott Kiddle and ExTAG Secretariat |  |
| **8** | **7.1** | Mr Kiddle ExTAG WG01 Convenor to prepare revision of OD 010 Parts 1 and 2. | ExTAG WG01 Convenor Mr. Scott Kiddle |  |
| **9** | **7.2** | ExTAG WG 03 Convener, Mr Ron Webb, to prepare a revision of OD 017 for circulation and comment by the first quarter of 2022. | ExTAG WG 03 Convener, Mr Ron Webb |  |
| **10** | **7.3** | ExTAG to recommend to the ExMC that the revision of IECEx OD 012 (circulated as ExMC/1735/DV) proceed to publication. | ExTAG Secretariat |  |
| **11** | **7.3** | The meeting agreed that further changes proposed for a subsequent revision of IECEx OD 012 be prepared for circulation and comment. Mr, Schuller DEKRA NL, to provide a proposal regarding Annex C of OD 012. | Mr Schuller, DEKRA NL |  |
| **12** | **7.4** | ExTAG WG06 to reconvene to clarify the definition of “third party test facilities” contained in OD 024 Ed.4 | ExTAG WG06 Convenor |  |
| **13** | **7.5** | ExTAG WG10 to consider preparing a further revision of IECEx OD 202 to take into account -   * the recognition of participation in other proficiency testing programs and * to clarify requirements in the situation of sub-contracting of testing arrangements. | ExTAG WG10 Convenor  Mr. Tim Krause |  |
| **14** | **7.5** | ExTAG WG10 to consider tests contained in the TCD that do not have an asterisk. The use of the \* throughout the TCD indicates the minimum testing equipment. | ExTAG WG10 Convenor  Mr. Tim Krause |  |
| **15** | **7.7** | ExTAG WG14 is to be reactivated. | ExTAG Secretariat |  |
| **16** | **7.7** | ExTAG WG14 are requested to meet (possibly with the PT 60079-46) before the end of 2021 to discuss the issues listed for ExTAG further consideration and input to IEC TC 31 discussions. | ExTAG WG14  Convenor Mr. Paul Kelly |  |
| **17** | **7.7** | The IECEx Secretariat to provide ExTAG members with a discussion paper regarding the work of IEC TC 31 AG55 on the topic of Specific Conditions of Use following the October 2021 IEC TC 31 meetings. | IECEx Secretariat |  |
| **18** | **8.2.1** | The IECEx Secretariat to circulate the revised ExTAG DS 2015/014 (Annex A of the report) to members inviting input for a revision according to the IECEx OD 035 process.  ANNEX A ExTAG/649A/R | IECEx Secretariat |  |
| **19** | **8.2.1** | The review of ExTAG DS 2015/006 to be carried out by the ExTAG Officers and the IECEx Secretariat and to report back to ExTAG. | ExTAG Officers  IECEx Secretariat |  |
| **20** | **8.3** | ExTAG Chair assisted by Messrs Omerovic, Kelly, Kiddle and Coppler and the IECEx Secretariat, to form an Ad Hoc WG to prepare a revision of IECEx OD 035 to clarify the criteria and process for maintaining and reviewing ExTAG Decision Sheets. | ExTAG Chair assisted by Messrs Omerovic, Kelly, Kiddle and Coppler and the IECEx Secretariat, an ad hoc group WG. |  |
| **21** | **9.1** | Members considered ExTAG/635/CD and agreed that the draft Decision Sheet circulated as ExTAG/635A/CD proceed to publication incorporating a change to the second item in the “Answer” section of draft to require reference (ID & version #) to ‘detailed instructions’ in the certificate. | ExTAG Secretariat |  |
| **22** | **9.2** | High Voltage Testing - Members considered the draft Decision Sheet circulated as ExTAG/663/CD indicating in-principle support, taking note of the points raised during the meeting, and agreed that it proceed according to IECEx OD 035 procedures. | ExTAG Secretariat |  |
| **23** | **9.3** | Members considered draft Decision Sheet circulated as ExTAG/661/CD and agreed that it proceed through the IECEx OD 035 process with ExTAG WG14 given the opportunity to comment. | Originators  INERIS / LCIE. |  |
| **24** | **10** | Mr Ajay Maira, ExTC, AU has been tasked with preparing a discussion paper (noting that ExTAG WG 03 for IECEx OD 017 needs to be consulted) on the acceptance of electronic files for drawings etc. | Mr Ajay Maira, ExTC, AU. |  |
| **25** | **12** | ExTAG Chair to advise the ExMC of ExTAG Decision 2021/07, relating to the establishment of an Ad Hoc WG on Increasing Ambient Air Temperatures, with a request to seek stakeholder involvement (other than ExTLs and ExCBs) in this WG. | ExTAG Chair  Dr Frank Lienesch |  |
| **26** | **13** | Mr Jasmin Omerovic, ExTAG Deputy Chair, gave a presentation on the topic of IECEx QMS auditing suggesting that the relevant IECEx Rules and ODs be revised to make a clear reference to ISO/IEC 17021-1. ExMC WG01 and ExMC WG05 tasked to consider this. | ExMC WG01 and ExMC WG05. |  |