

Meeting Record

Date	8 th March 2021 (Mon), 16:30-18:00
Venue	Video conference using Microsoft Teams
Chair	Paul Bussey
Author	-

Attendees	Name	Initial	Organisation
1	David Thomas (guest speaker)	DT	Temporary Works Forum (TWf)
2	Paul Bussey (chair)	PB	AHMM
3	Danny Coomber	DC	Butler & Young
4	Martin Touška	MT	Rolfe Judd
5	Aissam Nehari	AN	Faithful + Gould
6	Richard Price	RP	
7	David Mulligan	DM	Metwerk
8	George Poppe	GP	Sheppard Robson
9	Ciaran Gallagher	CG	Hawkins Brown
10	Craig Mcakenzie	CM	Argyll and Bute Council
11	Aamir Shahzad	AS	Currie Brown
12	James Taylor	JT	Nicholas Hare
13	Graham Boyce	GB	Barton Willmore
14	Peter Hegarty	PH	Chapman Taylor
15	Nima Shamsipour	NP	Mercury
16	Sarah Susman	SS	Scott Brownrigg
17	Dagmar Binsted	DB	Scott Brownrigg
18	Stuart Cudmore	SC	Scott Brownrigg
19	Chris Ottaway	CO	Ottaway and Associates
20	David Crawforth	SC	Ottaway and Associates
21	Elliott Locker	EL	Malcolm Hollis
22	Santiago Moreno	SM	SPPARC Studio
23	Antony Simpson	AS	Artelia UK
24	Martin Thrope	MT	Mott MacDonald
25	Sneha Holis	SH	AHMM
26	Goh Ong	GO	AHMM

NOTE ON COVID-19: Since 23rd March 2020, all DIOHAS meetings will take place over video conference.

Speaker

David Thomas, MSc, BSc(Eng), AKC, CEng, FICE, CFIOSH, MInstRE

David is a chartered civil engineer and a chartered safety and health practitioner, with experience in design, enforcement, contracting, manufacturing and training.

His early career was spent at Allott and Lomax and WS Atkins. He then spent nearly ten years at the Health and Safety Executive (HSE), latterly as an HM Principal Specialist Inspector of Health and Safety (Construction) and technical advisor to their falls from height programme.

He moved to become Safety Health and Environment Director at William Hare Ltd (a global leader in engineered steel solutions with facilities in the UK, UAE and India), before becoming Technical Director at The heightec Group Ltd. (a leading height safety specialist).

David is now a Director and Company Secretary to the Temporary Works Forum (TWf, www.twforum.org.uk), as well as providing independent advice (Heightsayfe Ltd).

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David lead a discussion on temporary works (TW) design stage and construction stage management, covering the following:

1. The appointment of temporary works designers at very early stages of projects
2. Appointing TW Designers to develop an advance contract design, where required, and fully costed.
3. How the Principal Designer & Client will integrate the TW design into the whole project & contractual relationship with the Principal Contractor.
4. How can the Client/PD ensure that the TW's are being carried out appropriately?
5. The correct interpretation of the requirements of Section 8.5 Principal Designers in BS 5975:2019.
6. What implications does the Building Safety Bill have upon Temporary Works and their management?

During the meeting, David notes the following:

- Temporary Works Forum (TWf) website www.twforum.org.uk
- The Principal Designers should take account of (NOT approve) temporary work, as per clause 8.5 of *BS 5975:2019 Code of practice for temporary works procedures and the permissible stress design of falsework*.
- The Temporary Works Toolkit prepared by the TWF that is freely available from The Institution of Structural Engineer's website: <https://www.istructe.org/thestructuralengineer/article-series/temporary-works-toolkit/>


8.5 Principal designers

In relation to temporary works, the PD should ensure that:

- a) there is a coherent construction method which identifies all key temporary conditions and temporary works;
- b) the finally agreed construction method, sequence and temporary works are not deleterious to the permanent works design;
- c) designers follow the recommendations of the relevant clauses within this British Standard (see [8.2](#), [8.3](#) and [8.4](#));
- d) they share information with designers, and the PC's TWC and TWC, that might influence the design of temporary works or the selection of construction methods;
- e) designers take account of the construction phase plan;
- f) they retain appropriate information relating to temporary works that would be required for the health and safety file; this should include information on construction method or sequence including associated temporary works which might impact on future maintenance or deconstruction; this information should be obtained from the PC's TWC; and
- g) they carry out the domestic client's duties with respect to temporary works, where these have been transferred to the principal designer (see [7.4](#)).

Details

Links to the recording of the meeting:
<https://youtu.be/fsd0C0nR404>



Temporary Works Forum (TWf)

An overview ...
... and some questions for discussion


David Thomas, CEng, FICE, CFIOSH, MInstRE
Director and Company Secretary, Temporary Works Forum Ltd.

TWf: An industry-wide independent group established with the aim of raising standards and providing an authoritative voice in the field of temporary works

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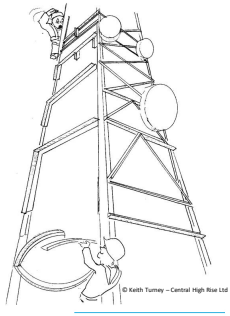
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David Thomas

- Allott and Lomax, Consulting Engineers
– 1983 to 1988
- WS Atkins - North West (later Atkins plc)
– 1988 to 1997
- Health and Safety Executive (HSE)
– 1997 to 2007
- William Hare Ltd., Structural Engineers
– 2007 to 2011
- The heightec Group Ltd
– 2011 to 2015
- Temporary Works Forum Ltd (TWf)
– 2014 to date
- Heightsayfe Ltd
– 2014 to date




© Keith Turney - Central High Rise Ltd

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Temporary Works Forum
Promoting best practice in the construction industry

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Temporary Works

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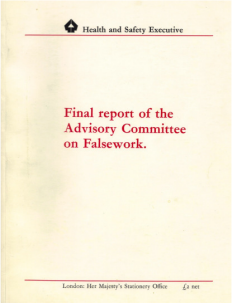
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Bragg and beyond

- The UK has been well-served by the principles established by the recommendation set out in the Bragg Report
 - although not all have been implemented
- BS 5975 gives good complementary recommendations and contains further advice
 - it is set in a UK context
 - it continues to evolve



Health and Safety Executive


Final report of the Advisory Committee on Falsework.

London: Her Majesty's Stationery Office, £1.95

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BS 5975: 2019

Temporary works:

“Temporary works can be described as providing an “engineered solution” that is used to support or protect either an existing structure or the permanent works during construction, or to support an item of plant or equipment, or the vertical sides or side-slopes of an excavation during construction operations on site or to provide access. It is used to control stability, strength, deflection, fatigue, geotechnical effects and hydraulic effects within defined limits.”

Source: BS 5975: 2019, Clause 5.1.1.1

Think:


- Temporary loads
- Temporary conditions
- Temporary works

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Temporary Works Forum (TWf)

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Background


- Founded in 2009 to encourage open discussion of any matter related to temporary works
- Membership is open to any organisation within the industry and sharing this intent
- TWf is a not-for-profit company (2010)
 - limited by guarantee; subscription-based (annual)
- Established for the benefit of the construction industry
- Its remit is primarily focussed on the UK, whilst drawing also on experiences from overseas

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Aims




- In general terms, to:
 - Give authoritative guidance and, when required, professional leadership to the industry
 - Consider aspects of permanent works and interfaces between permanent works and temporary works, as are relevant
 - Consider both current practice and likely developments
 - Be aware of trends and innovations in design, construction, use
 - Consider whether unacceptable risk exists or might arise in the future and, if believed so, to give warning to relevant bodies
 - Consider whether further research and development appears desirable and encourage other to avoid duplicating work
 - Keep a watching brief on international issues – HK, NZ and Aus

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Delivery




- Delivery is by:
 - Providing a forum for reasoned debate
 - Arranging meetings for opinion-formers and experts
 - Providing and contributing to education and guidance material
 - Promoting best practice
 - Seeking close working relationships with others
 - Influencing industry and others
- Members include:
 - specialists, generalists with an interest, clients, interested bodies, retired individuals,
 - designers, manufacturers, trainers, contractors, client bodies and government agencies

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To date ...




- TWf has:
 - 200 No. members and is growing, <https://www.twforum.org.uk/>
 - Regular attendance at meetings, c. 120-plus (& GCU video-link)
 - Published guidance on several topics and has working groups developing or updating guidance on several further topics <https://www.twforum.org.uk/resources>
 - Contributed to the drafting of new standards, e.g. PASs 8811, PAS 8812, BS 5975, Flex 8670
 - Established a Centre of Excellence at *City, University of London* in TW and Construction Method Engineering (with a new MSc) <https://www.city.ac.uk/courses/postgraduate/temporary-works-and-construction-method-engineering>

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Cont./...




- In conjunction with CITB Cskills, supported the development of:
 - an industry standard training courses for TWC and TWS
 - a Temporary Works General Awareness Course
- Worked with others, e.g. CPA, CIRIA, British Precast, IStructE, etc.
- Sponsored a temporary works category at the *BCI Awards*
- Now sponsor the *ICE NW Constructability Award*
- We'd strive to:
 - Continue what we have established
 - Broaden our membership
 - include more clients and permanent works designers
- Training
 - Possibly, develop training for permanent works designers
 - consider the construction and demolition of their schemes to minimise the requirement for temporary works

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Benefits



The benefits of membership include:


- Establishing, promoting and sharing good and/or best practice
- Discussion and debate – authoritative opinion
- Improving health and safety (and, perhaps, the environment)
- Discussing more efficient and better designs – and, thus, cost savings
- Highlighting buildability issues
- Supporting compliance with legislative requirements
- Networking – business opportunities
- Influencing and working with other industry organisations
- Setting the agenda for training
- CPD – in support of competence
- Working with Academia – Research Fund
- Involvement in 'education' – e.g. at CUL, Swansea University

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TWf Research Fund



Link members with academia

- Salford University**
 - Three TWf Scholarships (Undergraduates)
- University of Liverpool**
 - High-strength steel
- Northumbria University (with LSE)**
 - Digital collaboration
- Swansea University**
 - Rebar stability


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BS 5975: 2019

- **Code of practice**
 - Section 2
 - Procedural control of temporary works
 - Section 3 (being revised)
 - Permissible stress design of falsework
- **Management of temporary works**
 - Risk-based
- **Temporary works coordinator (TWC)**
 - Principal Contractor (PC's TWC)
 - Others



Code of practice for temporary works procedures and the permissible stress design of falsework

bsi.

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Consequences of Failure

When things go wrong....



Liverpool (2002)
3 workers injured (1 seriously)



Liverpool (2000)
1 worker died

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Retaining wall collapse



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Rebar collapse

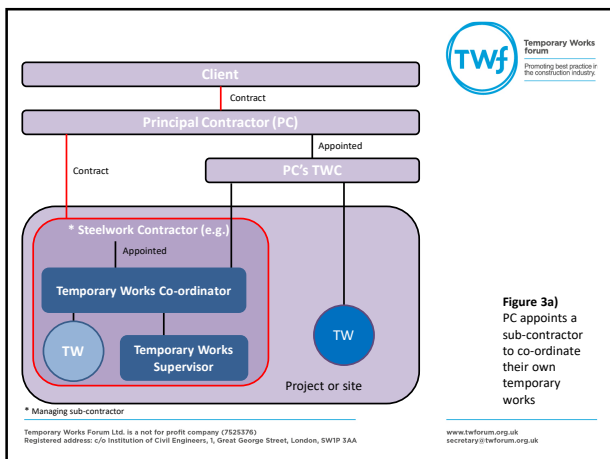


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Principles ...

... for the management of temporary loads, temporary conditions and temporary works during the construction process

<https://www.twforum.org.uk/viewdocument/principles-for-the-management-of-te>

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Principles

- Responsible person
 - Designated individual
- Nominated coordinator
 - TWC
- Assistant(s)
 - TWS(s)
- Schedule
 - Temporary works register
- Specification
 - Design brief




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- Designer(s)
- Design checks
- Design check certificate
- Holistic design check
- Competent site team
- Document control system
- Use the correct drawings
- Procure the correct materials




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- Brief the site team
- Prepare and check the site
- Construct to the drawings, etc.
- Inspections
- Hold points
- Use, maintain and check




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- Transfer of the load(s)
- Dismantle, etc. safely
- Feedback and learning
- Close out items in the register



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TWf Guides

www.twforum.org.uk – all free of charge

o Tab: /Resources /Library Folders

- Hoardings – A guide to good practice (August 2020)
- Temporary condition of reinforcement cages prior to concreting
 - Part 1 - Management guidance (October 2020)
 - Part 2 - Technical guidance (in progress)
 - NOTE:
Stability of reinforcement cages prior to concreting will be withdrawn upon publication of Part 2 - c. 2020/04) – and its Addendum (October 2013)
 - Safety Bulletin (October 2015)
- The use of European standards for temporary works design (November 2014)
 - informed PAS 8812
- Clients' guide to temporary works (Dec 2014)
 - informed PAS 8811

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- Precast concrete: Good practice and common issues in temporary works (February 2019)
- Working Platforms: Design of granular working platforms for construction plant - A guide to good practice (April 2019)
- **Temporary Works Procedure: SAMPLE (December 2019)**
- Effective management of scaffolding to BS 5975: 2019 (September 2020)
- **Constructability: A guide to reducing temporary works (October 2020)**

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TWf Information Sheets




- Information Sheet No. 1
 - CE marking and temporary works (2015)
- Information Sheet No. 2
 - Temporary Works Training (2016)
- **Information Sheet No. 3**
 - **Principal Designer: Guidance on temporary works (2017)**
- Information Sheet No. 4
 - Scaffolding FAQs (2018)
- Information Sheet No. 5
 - Stockpiles (2019)
- **Information Sheet No. 6**
 - **The safe management of temporary works (2019)**

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- Information Sheet No. 7
 - Static load piles tests (2019)
- Information Sheet No. 8
 - Concerns over substandard or unverifiable material, component and equipment substitutions in temporary works (2020)
- Information Sheet No. 9
 - Temporary Works Equipment (TWE) - Design to Eurocodes (2020)
- Information Sheet No. 10
 - Can a client's permanent works designer be the contractor's temporary work designer? (2020)
- Information Sheet No. 11
 - Implementing construction site closures: temporary works (2020)
- **Information Sheet No. 12**
 - **Competence of the Designated Individual (DI) (2020)**

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Some questions ...



For discussion ...


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1.

The appointment of temporary works designers at very early stages of projects




- The earlier there can be some temporary works input the better
- Why ... (PTO)

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The early consideration of temporary works:



- Are temporary works required or can they be eliminated by innovative design and/or sequencing?
 - 'construction method'
- The scheme need to be buildable ('constructability')
 - CDM2015 ('criminal')
- What temporary works might be required?
- Is there sufficient space for temporary works?
 - requirements for land-take

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2.

Appointing TW Designers to develop an advance contract design, where required, and fully costed



- Often advantageous
- Thought: "Design and Build" or "Detail and Build"?
- Does the design-and-build contractor lose a competitive edge?
- **PCSA:** Have you got the right person working with you (experience)?

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3.

How the Principal Designer & Client will integrate the temporary works design into the whole project & contractual relationship with the Principal Contractor

- **Clarify:** As an Architect or a **PD**?
- **PD: "Plan, manage, monitor and coordinate"**
 - do you have 'control' of the pre-construction phase?
 - do you have control of a budget, e.g. for exploratory surveys
- **PD: How involved in design issues during the construction phase?**
 - temporary works designers should be no different to other designers?

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4.

How can the Client/PD ensure that the temporary works are being carried out appropriately?

TWf Client Guide

- **Article 1 – Risk categorisation**
 - Consequence of failure (should it occur)
 - Design complexity
 - Execution criticality
- **Article 2 – Good temporary works design**
 - they are simple and safe to fabricate, erect, check once erected, use and remove;
 - they are robust and are sufficient as structures in their own right; also they have safe access for inspection and maintenance and, where needed, an appropriate inspection and maintenance regime
 - the designer's intent is communicated fully and without ambiguity
 - the basis of each design is clear to those who will manage each individual scheme, and to those who will manage the overall project

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- **Article 3 - Good temporary works design checking**
 - Independent of the design and confirms that the design has:
 - a sound basis
 - a concept which is appropriate
 - design documents which are clear to understand and if used properly will produce works which are safe to fabricate, erect, check once erected, use and remove; and that
 - the design as a whole is coherent and meets the brief
- **Article 4 - Good temporary works site inspection**
 - Site inspections are normally made to confirm that the works comply with specified requirements and to release Hold Points, e.g.:
 - **Permit to Load**
 - before the loading is applied to the temporary works (e.g. before concrete is poured)
 - before the temporary works apply load to any other structure
 - **Permit to Continue**
 - before the next stage of works begins (e.g. before excavation continues below a frame level, before moving to a subsequent stage of a demolition sequence)
 - **Permit to Strike**
 - before temporary works are struck (so that load is transferred from the temporary works to the permanent works)
 - **Permit to Demolish**
 - before starting a demolition sequence

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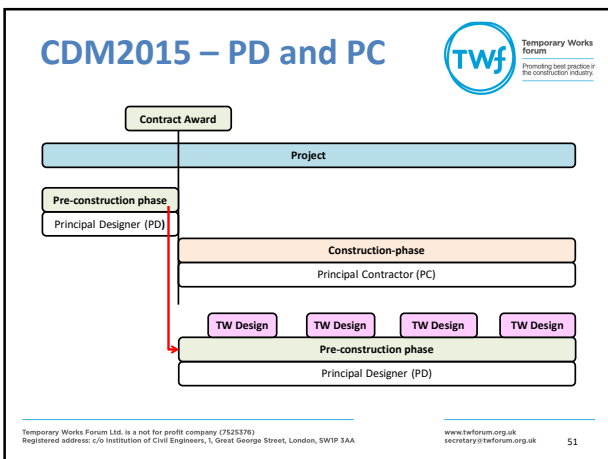
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- **Article 5 - Good temporary works co-ordination**
 - Every contract appointing a PC will require explicitly that the management principles of BS 5975 will be applied by the PC
 - and extended throughout the supply chain
 - There is only one TWC responsible for any specific site or, in specific circumstances, area of the site, and it is clear who that person is (**PC's TWC**)
 - there is single point responsibility
 - TWC must be **competent** at least to the level of being able to identify the issues with the temporary works that must be resolved
 - TWCs are formally appointed in writing by their **Designated Individual** (see BS 5975)
 - given an adequate level of authority, which includes the authority to stop the job for safety reasons
 - TWC to ensure that all elements of temporary works are identified and put on a **Temporary Works Register**
 - The role and duties of **TWGs**, as set out in BS 5975, are properly detailed and understood
 - **TWGs** are appointed in **writing**
 - their duty to work with the TWC is made clear in their appointment
 - All design documents will be fully **checked** and properly issued for construction
 - TWC to ensure that ITPs and RAMS include the **Hold Points** and other controls required by designer
 - temporary works is inspected at critical stages

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5.

The correct interpretation of the requirements of Section 8.5 Principal Designers in BS 5975: 2019


See Clause 8.5 ...

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BS 5975: 2019



Temporary Works forum
Promoting best practice in the construction industry

8.5 Principal designers

In relation to temporary works, the PD should ensure that:

- a) there is a coherent construction method which identifies all key temporary conditions and temporary works;
- b) the finally agreed construction method, sequence and temporary works are not deleterious to the permanent works design;
- c) designers follow the recommendations of the relevant clauses within this British Standard (see 8.2, 8.3 and 8.4);
- d) they share information with designers, and the PC's TWC and TWC, that might influence the design of temporary works or the selection of construction methods;
- e) designers take account of the construction phase plan;
- f) they retain appropriate information relating to temporary works that would be required for the health and safety file; this should include information on construction method or sequence including associated temporary works which might impact on future maintenance or deconstruction; this information should be obtained from the PC's TWC; and
- g) they carry out the domestic client's duties with respect to temporary works, where these have been transferred to the principal designer (see 7.4).


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6. What implications does the Building Safety Bill have upon Temporary Works and their management?



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- Not sure!
 - Is it one PD or two – PD (CDM2015) and PD (BSB)?
- Twf commenting on the development of Flex 8670
 - Version 3 awaited
- Whatever develops, the integration of temporary works at early design stages is essential under CDM 2015 and the Building Safety Bill
 - Gateways 1 & 2 (PTO)


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Gateways



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Planning Gateway one

40. Planning Gateway one utilises the existing process by which planning permission is granted in England. This requirement will be taken forward through secondary legislation and statutory guidance under the Town and Country Planning Act 1990, and the description is provided here for information purposes only.

41. The Gateway one before developers are required to be in place and its requirements will be fulfilled by those applying for planning permission for developments containing a higher-risk building.

42. Information will need to be submitted to the Local Planning Authority with the planning application information that demonstrates the safety requirements which impact on planning considerations have been considered at an early stage and incorporated into the proposals. This information will take the form of a Five Statement.

43. A new statutory committee, on the lines of the Building Safety Regulator, will be introduced for all planning applications containing a higher-risk building, this will provide specialist fire safety input on the proposals to assist the Local Planning Authority in their decision-making process.

44. Where a planning application is not currently required (e.g. because it has been permitted by the General Permitted Development Order 2015), the requirements of Planning Gateway one will not apply, and development proposals will proceed straight to Gateway two.

Gateway two

45. Gateway two occurs prior to construction work beginning. It bolsters the current building control 'deposit of full plans' stage where a dutyholder provides a building control body with their full design information.

46. Gateway two provides a 'hard stop' where construction cannot begin until the Building Safety Regulator is satisfied that the dutyholder's design meets the functional requirements of the building regulations and does not contain any unmitigated safety management expectations.

47. Dutyholders will be required to submit key information to the Building Safety Regulator to demonstrate how the building, once built, will comply with the requirements of building regulations. Design decisions in relation to fire and structural safety should be well considered and justified, to ensure they will work effectively during occupation.

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