### **Temporary Works Management**

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VolkerFitzpatrick	VolkerFitzpatrick-Rail	VolkerRail	VolkerStevin	VolkerHighways	VolkerLaser	VolkerServices
use Q25-VF	use Q25-VF	n/a	$\checkmark$	use Q25-VH	use Q25	n/a

### 1. PURPOSE

This procedure describes the management process that shall be followed to ensure that temporary works, for both Principal Contractor (PC) and Subcontractor (SC), are identified and appropriately managed (installed, inspected, maintained and removed) on site as required to guarantee their structural integrity and safety in use whilst at the same time producing the required quality of permanent works.

This procedure a should be read in conjunction with Q34 *Temporary Works Design*.

### 2. SCOPE

This procedure applies to ALL aspects of temporary enabling works required on site, as well as the temporary conditions of existing assets and permanent works items that are affected by construction operations and phasing of works.

### 3. **REFERENCES (INPUTS)**

- BS 5975: 2019 CoP for temporary works procedures and the permissible stress design of falsework. (in particular, Section 2 Procedural control of temporary works)
- PAS 8811 Temporary Works
- Temporary works considerations at tender stage
- Project specific works information (which may include drawings and contract specifications)
- Site investigation reports
- Client requirements
- Constraints by 3rd parties
- The Construction, Design, Management Regulations 2015

### 4. ABBREVIATIONS & DEFINITION OF TERMS

CDE - Common Data Environment (Workspace, Asite, etc.)

Company - Relevant VW UK business unit

**DI** - Designated Individual (appointed by the Company to approve appointment of TWCs and TWSs) **EDR** - Engineering Department Representative (assigned as single point of contact for the project TW design requirements)

RAMS - Risk Assessment & Method Statement

 $\boldsymbol{SC}$  - Subcontractor

**SM** - Site Manager (Person responsible for day to day running of the site (Site Agent, Project Manager, etc.) **TW** - Temporary Works:

Defined as works undertaken during construction to enable the permanent works to be constructed, or to stabilise or protect an existing structure, but that are not required to form part of the finally completed construction works.

Refer to BS5975 (5.1.1.1) for the standardised industry definition.

TWC - Temporary Works Co-ordinator

**TWD** - Temporary Works Designer (Person / organisation responsible for the design of the temporary works. **TWS** - Temporary Works Supervisor

### 5. ACTIONS (PROCESS)

#### 5.1 GENERAL

Some form of temporary works will be required on ALL construction sites. It is therefore paramount that the planning, design and controlled implementation of TW is carried out effectively. Failure to do this can cause risks to the project.

The TWC should consider project specific requirements defined by the Client. E.g., *Environment Agency (EA SHEW CoP), National Grid contracts (NG TP184) and Major Infrastructure Projects (PAS 8811:2017).* 

TWC

RESPONSIBILITY

Q25-VS

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5.	ΑΟΤΙΟ	NS (PROCESS) (	CONTINUE	D)		RI	ESPONSIBILITY
5.2		NTMENT OF TE RARY WORKS SU			RDINATOR (TV	C) AND	
		n as practicable a ent individual to unc			shall nominate	a suitably	SM
	Tempor	<b>must</b> be appoint ary Works Co-ordir ed to the DI for app	<i>ator.</i> This mu				
		required, to suppor -VS <i>Appointment of</i>			• • • •	ted, using	SM
	This mu approva	ist be signed by SM II.	, TWC and the	nominated TW	S and forwarded to	the DI for	
	Civils, N	may be required wł 1&E, etc. (ref. Fig 1) s (ref. Fig 2).					
		shall approve each Forms shall be save			turning the form to	o the TWC	DI
		uties can be delega					

this procedure for TWC read TWS.

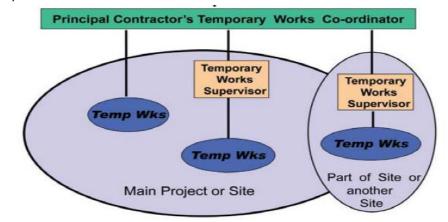


Fig 1 - Example of TWC and TWS Relationships on site.

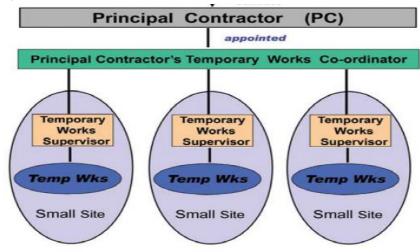


Fig 2 - Example TWC and TWS Relationship for a widespread site.

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<b>.</b>	ΑΟΤΙΟ	NS (PROCESS)	(CONTINUED	))		RE	ESPONSIBILIT
5.2	APPOIN	NTMENT OF TE	MPORARY N	VORKS CO-O			
	lf an ap (or Depi	pointed TWC leave uty) must be nomin ed on H01-04 <i>Allo</i> o	es the project of ated and appoi	or is unavailable nted. The TWC,	for any period, a	new TWC outies shall	SM
	ensure f	C must be present that the necessary Permit relative to th	inspections are	carried out and	that Q25-05-VS	Temporary	TWC
5.3	TWC/	TWS TRAINING &	EXPERIENCE				
		s nominated for the struction methods i				erience of	SM
		iduals undertaking I Awareness Traini				rary Works	TWC
	tempora	iduals undertaking ary works procedur Q25-VS <i>Temporary</i>	e training. This	training shall be	extended to subc		
	Addition	al TW training req	uired can be re	quested through	line managers.		
		v National Grid co ary works (CITB TV				training in	
5.4	IDENT	FYING THE NE			RKS		
	stage (s	uirements should see Q21 <i>Planning</i> passed to the proj	Standards and	S02 Estimating	y). The Tender TV		SM
	<i>Tempor</i> requirec	VC shall review <i>ary Works Registe</i> f on site. The TWG ed to be added to t	er for the project should note the second seco	ct recording AL	_ situations where	e TWs are	TWC
	Enginee	TW requirements ering Department a 4 weeks prior to st	t the tender hai				SM
	have vis designe	rding ALL TW on C sibility of all live T d, Company desig I clashes in propo	W (including p ned and subco	roprietary soluti ntractor TW) thu	ons, standard dea us being able to ic	signs, site lentify any	TWC
	with cor	-VS <i>Temporary W</i> nsideration of cons ls, installation, mor	struction progra	amme, design p			TWC
		VC is responsible out the duration of		g Q25-03-VS	Temporary Works	s Register	TWC
		meetings with the TW requirements					TWC
	VS Terr	ee risk categorisati nporary Works Reg Femporary Works I	<i>jister</i> . The chec				TWC

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5.	ACTIO	NS (PROCESS)		D)		R	ESPONSIBILIT
5.4	IDENTI	FYING THE NEE	D FOR TEM		RKS		
	Execution the Q25 Works	/C shall define the on Risk Review (if r 5-03-VS <i>Temporar</i> ) Des <i>ign and Execu</i> rs design complexit	not done at Tel V Works Regis tion Risk Revi	nder). This is do s <i>ter</i> (also refer <i>iew.</i> The design	ne using the relev to Q25-G01-VS and execution r	rant tab on <i>Temporary</i> isk review	TWC
	requiren	categories are so nents. Governing ngly during the cheo	procedures for	or TW should I			TWC
5.5	MANAG		BCONTRACT	TORS TEMPO	RARY WORKS		
		a subcontractor is t at they have proce			must demonstrate	e at pre-let	SC / Buyer
	docume	any SC order to any SC order to any science of a station shall be reverse of documents of documents and the statements of a statements of a statements and the statements and the statements and the statements are stateme	iewed by the D				DI
	Where t <i>Manage</i>	this is not the case ement.	the SC shall	agree to follow	Q25-VS Tempor	ary Works	
		of the TW process tract Management.	es to be utilise	ed will be record	ed within P03-01	Pre-Order	Buyer
		all be further empha rt Health & Safety I			d within HSE-03 S	ubcontract	SM
	their ow	shall be made aw n TWC (and TWS i 03-VS <i>Temporary</i>	f required) and	details shall be			SM
		TWC must report ing undertaken on t		C (ref. Fig 3) an	d shall notify then	n of all SC	SC
	The PC'	s TWC shall record	all SC TWs o	n Q25-03-VS Te	emporary Works F	Register.	TWC
	G01-VS by the S	medium, high or ve <i>Temporary Works</i> SC, the PC's TWC n any designs prior	Design and E may request	xecution Risk Re that the EDR sl	e <i>view</i> ) are being u	Indertaken	
	The ED Checklis	PR shall record th st.	is diligence re	eview using Q3	4-05-VS Design	Validation	EDR
		This design validati					

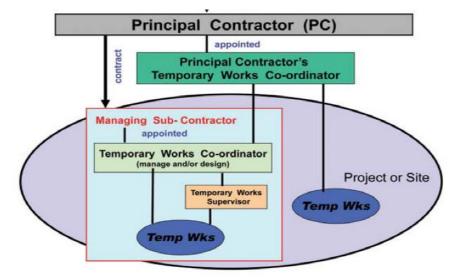
it is purely to ensure that the Company minimum requirements are met and adequate information regarding the design has been provided, any residual risks have been identified and communicated effectively.

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Temporary	/ Works Mana	agement				Q25-VS
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5. ACTIO	NS (PROCESS) (		D)		RE	ESPONSIBILITY

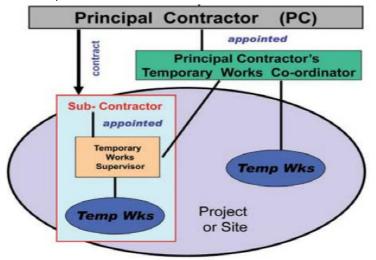
5. **ACTIONS (PROCESS) (CONTINUED)** 

5.5 MANAGEMENT OF SUBCONTRACTORS TEMPORARY WORKS



#### Fig 3 - TW Process for Subcontractor with own TW Procedure

Where a SC does not have their own TW procedure, they may operate under this procedure and be required to attend Q25-VS procedural training. The TWC responsibility however will remain with the Company as Principal Contractor (ref. Figure 4) and the SC shall appoint a SC TWS to undertake the relevant duties. The SC TWS must report to the VS TWC.



#### Fig 4 - TW Process for Subcontractor following Q25-VS

The Company TWC shall ensure that the SC's appointed TWC or TWS has carried out, and continues to carry out, the necessary inspections and has issued the relevant permits in accordance with the TW procedures being used.

TWC

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Temp	porary	Works Man	agement				Q25-VS
	Fitzpatrick Q25-VF	VolkerFitzpatrick-Rail	VolkerRail	VolkerStevin ✓	VolkerHighways	VolkerLaser	VolkerServices
use	Q25-VF	use Q25-VF	n/a	· · ·	use Q25-VH	use Q25	n/a
5.	ΑΟΤΙΟ	NS (PROCESS)	(CONTINUED	D)		R	ESPONSIBILITY
5.6	DEFIN	ING THE PROBL	.EM				
	the prob all availa	04-VS <i>Temporary</i> blem and to propos able data relevant t f, the TWC <u>must</u> re	se what solution to enable the T	n is proposed. T W to be designe	he brief shall brin	g together	TWC
		G-VS <i>Temporary</i> red when providing			provides informa	ition to be	
		04-VS <i>Temporary</i> category 1, 2 or 3					TWC
	required	-VS <i>Temporary W</i> I and be issued to view on Q25-03-V3	the project ED	OR as determine			TWC
5.7	DESIG	N OF TEMPORA	RY WORKS				
	associa	eceipt, the EDR sh ted information. If the EDR shall dis	any amendm	ents, changes			EDR
	(in-hous accepte	e TW brief is acce e) or external co d quotation with si specific PSC Agree	nsultancy (cov te. Alternativel	vered by PSC y, site may send	Term Contract) d out to a speciali	subject to	EDR
		/ design shall be d consultancy's ow			oorary Works Des	<i>sign</i> or the	TWD
		gns must be chec in BS5975:2019 Ta		ropriate level i.e	e., Category 0, 1,	2 or 3 as	TWD
5.8	TWC R	EVIEW OF DES	IGN				
	On rece	ipt of the TW desig	n the TWC sha	all ensure that:			TWC
	<ul> <li>Design</li> </ul>	ns and checks have	e been carried	out			
		esign is in accorda		•	ed		
		esign remains valio					
		information reques rawings provided s			onstruction		
		ent information has				H&S. E. Q)	
		able loads, limitatio			•		
		ent information re	•	•	•	nave been	
	• The T	ed such that hold p WC has all the nec Imporary Works Pe	essary informa			a Q25-05-	
	For all C to go ov	Cat 2 and Cat 3 des ver the design and ntention.	signs the TWC				TWC
5.9		LLATION, CHEC	KING & TAK	ING INTO USI	E		
	The TW permits	/C shall ensure wh to work, etc. have h hat may have asse	peen obtained f	from the relevan	t Employer and / o		TWC

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empor	ary	Works Mana	agement				Q25-VS		
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. AC <sup>.</sup>	τιο	NS (PROCESS)		))		R	ESPONSIBILIT		
		LATION, CHECKI	•	•					
listir doci	ng a	orks Permit site RAMS 225-05-VS	TWC						
Dur	ing	Installation							
		ion of TWs must be s provided.	in accordance	e with the desigr	and construction	sequence	TWC		
	and	municated The TWC	TWC						
ackı <i>Ten</i>	nowl <i>npora</i> n un	shall be Q25-05-VS tions have ceed to the	TWC						
The are		or the TWs	TWC						
Pric	or to								
	The TWC shall ensure that any limitations on magnitudes or rates of loading stated on the drawings are clearly stated within Part 1 of Q25-05-VS.								
Tak	ing	into Use							
	Once installation is complete 'Part 2 - Take into Use' of Q25-05-VS <i>Temporary Works Permit</i> must be signed by the TWC (or TWS if authorised).								
the	The TW Permit can be in the form of Q25-05-VS <i>Temporary Works Permit</i> or by signing the Permit to Load Section on a <i>Temporary Works Tag</i> (available from Scaff-tag). The tag system must be visible on site adjacent the TWs.								
<i>Wor</i> reco	<b>Note:</b> Where the TW Tag system is to be used Parts 1 and 2 of Q25-05-VS <i>Temporary Works Permit</i> must be completed and reference to using the tag system shall be recorded in Part 3. Q25-05-VS <i>Temporary Works Permit</i> shall then be saved on the CDE.								
	The date TW are taken into use shall also be recorded on Q25-03-VS <i>Temporary Works Register</i> this will identify what TW are live and require inspections								
In se Wor		rties, e.g.,							
Peri	<i>mit <mark>c</mark></i> d ph	ary Works he latter is uld be filed	TWC						
shal	ll be	at be regularly chec determined by the utory checks requir	TWC if not stip	oulated on TW d			TWC		
load	ling	/C should conside of the TW or extre vave action, etc.					TWC		

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Tem	porary	v Works Mana	agement				Q25-VS
Volke	rFitzpatrick Q25-VF	VolkerFitzpatrick-Rail use Q25-VF	VolkerRail n/a	VolkerStevin ✓	VolkerHighways use Q25-VH	VolkerLaser use Q25	VolkerServices n/a
5.	ΑΟΤΙΟ	NS (PROCESS) (	CONTINUED	D)		R	ESPONSIBILITY
5.10	DESIG	N CHANGE REQ	UESTS				
		nges shall be made					TWC
		C shall communica al Query or via the		change requests	s using Q34-03 <i>E</i>	ngineering	TWC
		ipt of a response to ument against the T				C shall file	TWC
5.11	REMO	VAL OF TEMPOR		(S			
	before 1 Drawing advice.	e necessary for ma W can be removed s. In the absence Reference to any c d on Part 4 of Q25-	, this may be s of any stipulati ontrols for stril	tipulated on pro ions the TWC s king or removal	ject works informa hall confer with th of temporary worł	tion or TW e EDR for	TWC
	specific that site	ral removal of the T sequence must be RAMS associated orary Works Permit	followed draw with the TW c	ings will be prov learly identify the	ided. The TWC sh	nall ensure	TWC
		C shall ensure that required prior to re			clearances, permit	s, etc. that	TWC
	TWC (o	striking or removal r TWS if authorised <i>[emporary Works F</i>	shall sign the				TWC
5.12	RECO	RDS REQUIRED					
	be save	of all Q25-VS docu ed on the project nts, the TWC shou r basis	CDE. Whilst t	he TW Registe	er and TW permit	ts are live	TWC
	The TW project (	C should ensure th	at a copy of th	ne relevant desig	gn outputs are sav	ved on the	TWC
6.	ASSOCI	ATED GUIDANC	E & INFORM	IATION			
	• Q25-0	01-VS Temporary	Works D <i>esian</i>	and Execution	Risk Review		
					-		

• Q25-04G-VS Temporary Works Design Brief Guidance

### 7. DOCUMENTATION (OUTPUTS)

Standard VolkerWessels UK Record Documents are referenced in brackets. Where alternative formats are used, they shall contain the same or additional content.

- (Q25-01-VS Appointment of Temporary Works Co-ordinator)
- (Q25-02-VS Appointment of Temporary Works Supervisor)
- (Q25-03-VS Temporary Works Register)
- (Q25-04-VS Temporary Works Design Brief)
- (Q25-05-VS Temporary Works Permit)
- Scaff-tag Temporary Works Tag system
- Statutory inspection records
- Installation records

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### **Temporary Works Management**

VolkerFitzpatrick	VolkerFitzpatrick-Rail	VolkerRail	VolkerStevin	VolkerHighways	VolkerLaser	VolkerServices
use Q25-VF	use Q25-VF	n/a	$\checkmark$	use Q25-VH	use Q25	n/a

### 8. ASSOCIATED DOCUMENTS

#### **External Reference Information:**

- BS 5975:2019 Section 2 Procedural Control of Temporary Works
- CDM 2015 Regulations 22 to 24
- FPS Working Platform Certificate
- Environment Agency (EA) 677\_15/Version 3 Safety, Health and Wellbeing (SHEW) COP-May 2018
- National Grid UKBP/TP184 Procedural Requirements for the Management of Temporary Works
- PAS 8811 Major infrastructure client procedures. Code of practice

### 9. ISSUE RECORD

Issue	Date	Comments
1	Oct 2022	Reset to issue 1 as procedure is now separated in to Q25-VS <i>TW Management</i> , for operational purposes and new Q34 <i>Temporary Works Design</i> . Q25-VS has been re-written in line with updated standards.

### 10. WHAT HAS CHANGED IN THIS LATEST ISSUE AND WHY

Document has been re-written to bring up to date with relevant standards and to implement a number of procedural changes in terms of activities and forms to be used.

Design requirements have been removed and put in Q34 *Temporary Works Design*. Q25-VS focuses on the operational role of TWC and management of the TW from inception to removal.

The responsibility for issuing the Temporary Works Permit (formerly Q25-15-VS *Permit to Load*) has changed from TWD to Temporary Works Co-ordinator.

Please refer to VolkerStevin Record of Revisions October 2022 for a more detailed breakdown of what has changed and why.

#### 11. BRIEFING REQUIREMENTS

All new employees will receive an introduction to the Integrated Management System (IMS) at induction, according to the nature of their role.

All employees with an email address receive the 'Record of Revisions' each month, which details changes to the IMS. All Line Managers retain the responsibility to ensure their staff are briefed on changes as appropriate.

The following table defines how revised issues of this document are briefed to existing employees according to related specific responsibilities.

Job role, department, function	Method of briefing revised issue
Head of Design Management	Document owner, approves changes, no briefing required.
Designated Individual	Approves changes, briefs members of the Engineering Department, Company TWDs, TWCs and TWSs.
All Employees	Record of Revisions and cascade briefings as appropriate.

#### 12. IMS AUTHORISATION

#### Document owner approval:

Miguel Casas, Head of Design Management - 31.10.2022

#### Approval for IMS:

Andria Georgiou, IMS Coordinator - 31.10.2022

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