UTP² Managed Surveys



Consistently Avoiding Failures With Managed Surveys



Consistently Avoid Failures with Managed Surveys



Why Managed Surveys

- Spot trends, identifying problems before they lead to costly failures.
- Intervene only when necessary and decide on the most cost-effective intervention.
- Undertake cheaper planned interventions rather than expensive emergency shutdowns.
- **Optimize time** on site by using 'Guided Mode' surveys.
- Generate consistent data by undertaking repeatable surveys every time.
- Deskill or Outsource all or parts of this activity
- Securely manage multiple users across a fleet of UltraTEV[®] Plus² devices
- Connect to UltraTEV[®] Cloud and manage the weeks workload then operate offline
- Manage the full process from allocating surveys to reviewing results
- Graphical analysis suite supported by access to PD experts on demand
- Scalable implementation from single site working to an integrated enterprise solution

Connected Services



A	sset Cre	ation			
	-		10.00		
				1.00	
7		-			
HV Substations		-			
HV Substations	-				
View, update and		1			
create HV Substations					
create my obbatationa		14			

Define or import assets with ease.

Drive consistency, reduce ondevice data input.

Use field data to improve asset data quality.

wo	rkflow Gen	eration		
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	1000			
111				
	-			
Workflows	-			
	-			6.0
	-			
create Workflows				_

Create structured templates for data collection.

Apply consistent measurement policy by population, asset type, or site.

Customize workflow with bespoke on-site questions.



Secure on-device Login to receive work orders.

Utilize guided mode to aid survey completion.

Automatically upload completed results.

Creation and specification of work orders. Schedule and assign on site activity. Provides overview of job progress.



Access to expert reporting, either on demand or for all your surveys.

Auto generated asset overview guides user to areas of concern. A blend of graphical tools, automated analytics, and rich data sets.

Identify developing trends with simple access to previous survey results including detailed phase plots.



Managed Survey Cloud App

https://managedsurveys.sub360test.co.uk/

Login portal for the Managed Surveys Cloud App

Credentials Issued by EA Technology

Login - Managed Survey	'S
Username	
davidr	
Substation 360 login credentials	
Password	
•••••	
Request Access	Louis
Forgot Password	Login

Welcome to Managed Surveys



/iew, update and create HV Substations







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Welcome to Managed Surveys









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Substations

EA Technology Australia Test 🗸							
+ HV Substation		Q Search			e		
HV Substation ID	HV Substation ↑↓ Se		Serial Number	Actions			
2138357	UK Demo		42	0			
2138528	Demo A		666A	•			
2142888	VP10 HV Room		1	0			
2153520	Taralga Windfarm 132kV Switchyard		132kV Switchyard	0			
2153763	WTG 34		WTG 34	0			
2153813	Taralga WND FRM 33kV Substation			Taralga WND FRM 33kV Substation	0		
2153985	WTG 35		WTG 35	•			
2154035	wtg 39		wtg 39	0			
2169076	WTG 48			WTG 48	•		
2170569	Taralga Windfarm Switchyard			Taralga Windfarm 132k	Ο		

HV Substations

Add a Substation

Three Ways to Achieve This:

- Add up-front from the Substation Option
- Add when Importing Survey Data
- Batch Import by EA Technology
- Note Required Fields:
- Substation Name
- Substation Number



Add a Substation

bstation Details		Switchgear
Substation Name (Required)		<u>•</u>
Serial Number (Required)		Create
Address	Address Name Line 1 Line 2 Line 3 Line 4	Create Switchgear × Switchboard Name Add Close
	Locality Region Post Code	Switchgear MAIN 1 Panel Number Panel Name
Latitude (Required)		•
Longitude (Required)		
Licence Area	Select licence area	
District	Select district 🗸	

×

Cancel

Review Substation

Su	bstation Details	
		🖍 Edit
	Substation Name	US Demo
	Substation Number	12345
	Address	400 Morris Ave Denville NJ 07834 US
	Latitude	40.90951
	Longitude	-74.49938

Sw	itchgear				
	SWITCHGEAR 1	SWITCHGEAR 2	0		
F	anel Number		Panel Name		
	1		Incomer	X	/
	2		Feeder A	X	/
	3		Feeder B	X	/
	4		Feeder C	X	/
			0		

Welcome to Managed Surveys

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View, update and create H Substations







What is a Workflow

- Define What will be Done on Site
- Generic or Substation or Switchboard Specific
- Required Environment Checks
- PD Measurements to be Taken
- Other Condition Questions
- Other General Questions

Workflow Details	
Summary	Switch House No 1 - Annual
Detailed Description	Annual Switchboard Inspection
Created Date	5/16/2022 11:29:24 AM
Created By	davidr
Revision	4
Date Last Updated	5/17/2022 10:40:05 AM



technolog	Managed Surveys				
≡		. .	Workflows		
• •	Customer EA Technology Australia Test 🗸 🗸				
Ê	+ New Workflow	Q Se	earch		C
[∼	Workflow ID ↑↓	Summary ↑↓	Workflow Type ↑↓	Substation $\uparrow\downarrow$	Actions
			~		
	100805	Generic Annual PD Survey	GENERIC		Ο
C	100803	Switch House No 1 - Annual	SUBSTATION SPECIFIC	Switch House No 1	\bigcirc
	100802	PD Survey at Sengkang 6.6	SUBSTATION SPECIFIC	Sengkang East	Ø
	100801	pd survey at AMK	SUBSTATION SPECIFIC	AMK 66kV	•
	100800	PD Survey at AMK 66	SUBSTATION SPECIFIC	AMK 66kV	•
	100799	PD Survey at Sengkang East Road TF room	SUBSTATION SPECIFIC	Sengkang East	•
	100798	pd survey Sengkang East Road Switchroom	SUBSTATION SPECIFIC	Sengkang East	•
	100761	pd survey punggol plaza 2	SUBSTATION SPECIFIC	Punggol Plaza 2	0
	100760	pd survey 511 bedok north ave 2	SUBSTATION SPECIFIC	511 Bedok North Ave 2	•
	100750	1			

Workflows



Create Workflow			×
1 Workflow		2 Substation	3 Measurements
	Workflow Details		
	Summary		
	Detailed Description		

Back Next Cancel

✓ Workflow	2 Substation	(3 Measurements
Conditions	Substation Details		
Conditions Checks	Where can this workflow b	be applied?	
Background Metal	Any substation	Selecting any substation will create a gene workflow. This allows work orders to be m	eric ade
Background Air	Specific substation	even when details about the site are incom	nplete.
Temperature/Humidity	- Substation: Switchgear.	Select a substation	
Custom conditions questions		Taralga Windfarm 132kV Switchyard	
No custom questions have been entered.	Custom Questions	Taralga WND FRM 33kV Substation	
•	No custom questions h	WTG 35 wtg 39	
		Taralga Windfarm Switchyard	

luestion	e.g. What's the v	veather like?	
esponse format	Text Date	Dropdown List	
ext Validation (optional)			
No Validation			
Validation Builder			
Allow upper cas	e letters?	Allow special character	's?
Allow lower case	e letters?	Limit the length?	
Allow numbers?		0	200
Allow spaces?			
) Manually edit regula	ar expression		
Expression:			

Custom Question Builder

 Question
 When was last outage?

 Response format
 Text
 Date
 Dropdown List

 Add
 Cancel

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ustom Question	Builder	×
Question	Building Condition	
Response format	Text Date Dropdown List	
Dropdown Options		
Good		×
Minor Defect Fou	nd	X
Major Defect Fou	nd	X
Serious Concern		×
Include "Oth	er" option?	
		Add Cancel





Workflow		– 🗸 Substation –	3 Measurements
TEV Measurement ~		Centre Centre	×
Panel No: 1 FDR 14	× ::		
Panel No: 2 BUS SECTION 1	× ::		
3 Panel No: 3 AUX SUPPLY BUS A	×	Drag to change measurement order	
Panel No: 4 FDR A	× :::		
5 Panel No: 5 FDR 5	× **		
Panel No: 6 FDR 3A	×∷		

Save

Vorkflow	Substation	3 Measurer	nents
✓ TEV Measurement ✓	Cable Box ~ Centre	Ō	** ** **
♦ 19 panels selected ★ TEV Measurement ✓	VT Chamber 🗸	Ō	00 00 00
VIItraSonic	Cable Box ~ Centre	Ō	**
> 19 panels selected	Back	Save	Cance

Review Workflow

🚓 Workflow - Generic Annual PD Survey

WORKFLOW SUBSTATION MEASUREMENTS Workflow Details Generic Annual PD Survey Summary Detailed Description A TEV and Ultrasonic Survey Created Date 5/17/2022 11:17:25 AM Created By davidr Revision 3 Date Last Updated 5/17/2022 11:23:49 AM

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Welcome to Managed Surveys



What is a Work Order?

- Provide a structured approach to data collection
- Schedule and assign work to field technicians
- Provide an overview of job progress
- Manage and view returned data

Moving Data From and To the Cloud



- Create Structured Work Orders
- Assign Jobs to Field Staff
- Manage Returned Data

Work Orders

Contraction Managed Surveys \equiv B Work Orders * 5 Customer EA Technology Australia Test 🛛 🗸 ÷. **Edit Assignments** Ê How Work Order Q Search С [∼ Target Completion Date $\uparrow\downarrow$ AssignedTo ↑↓ Work Order Number ↑↓ Substation ↑↓ Target Start Date ↑↓ Status ↑↓ Actions ሆ Start date Filter Completion date Filter Status Filter \sim Created, assigned 0 ASSIGNED Switch House No 1 101134 5/20/2022 3:52:15 PM 5/27/2022 3:52:15 PM Created, assigned, completed COMPLETE 101133 Switch House No 1 5/18/2022 10:00:41 AM 5/20/2022 5:00:41 PM 0 101132 Switch House No 1 5/17/2022 12:00:48 PM 5/18/2022 5:00:48 PM ASSIGNED davidr 0 101131 Sengkang East 5/26/2022 7:57:52 AM 5/27/2022 7:57:52 AM ASSIGNED davidr Created, not assigned 0 READY Sengkang East 101130 5/4/2022 7:54:41 AM 5/6/2022 7:54:41 AM 0 101129 Sengkang East 5/5/2022 7:52:52 AM 5/6/2022 7:52:52 AM READY 0 101128 AMK 66kV 6/24/2022 7:47:44 AM 6/30/2022 7:47:45 AM ASSIGNED erikl 0 101127 AMK 66kV 4/29/2022 4:27:12 AM 4/30/2022 4:27:12 AM ASSIGNED stevenl 0 101126 Sengkang East 4/30/2022 2:55:42 AM 5/1/2022 2:55:42 AM ASSIGNED yuenw 318 Jurong East st 31 0 101125 4/28/2022 8:36:13 AM 4/29/2022 8:36:13 AM ASSIGNED stevenl

New Work Order

W	ork Order Details									
	Customer (Required)	EA	Tech	nnol	ogy	Aus	stral	ia Te	st	
	Client Reference ID									
	Project Code	< Mon	Tue	Wed	/lay 20 Thu	22 Fri	Sat	> Sun		
	Summary	25 2 9	26 3 10	27 4 11	28 5 12	29 6 13	30 7 14	1 8 15		
	Detailed Description	16 23 30	17 24 31	18 25 1	19 26 2	20 27 3	21 28 4	22 29 5		
	Target Start Date			0:	3 :	∧ 36 ✓			ë	
	Target Completion Date	Se	lect	a da	ate				Ë	

Location And Workflow	
Substation (Required)	511 Bedok North Ave 2
Switchgear (Required)	Q
Workflow (Required)	Main Switchboard
	Switch House No 1 - Annual
Extra Details	Substation Specific
E.g. Access Codes	Switch House No 1 - Annual Generic



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	🗎 Work Orders						
Customer EA Technology Australia Test	/						
+ New Work Order	dit Assignments	Q Search				e	
Work Order Number $\uparrow\downarrow$	Substation $\uparrow\downarrow$	Target Start Date $\uparrow\downarrow$	Target Completion Date $\uparrow\downarrow$	Status ↑↓	AssignedTo ↑↓	Actions	
		Start date Filter	Completion date Filter	Status Filter 🗸 🗸			
101133	Switch House No 1	5/18/2022 10:00:41 AM	5/20/2022 5:00:41 PM	READY			
101132	Switch House No 1	5/17/2022 12:00:48 PM	5/18/2022 5:00:48 PM	ASSIGNED	davidr	0	
101131	Sengkang East	5/26/2022 7:57:52 AM	5/27/2022 7:57:52 AM	READY		O	
101130	Sengkang East	5/4/2022 7:54:41 AM	5/6/2022 7:54:41 AM	READY		Ο	
101129	Sengkang East	5/5/2022 7:52:52 AM	5/6/2022 7:52:52 AM	READY		Ο	
101128	AMK 66kV	6/24/2022 7:47:44 AM	6/30/2022 7:47:45 AM	ASSIGNED	erikl	Ø	
101127	AMK 66kV	4/29/2022 4:27:12 AM	4/30/2022 4:27:12 AM	ASSIGNED	stevenl	Ø	

ork Order Details	
Customer	EA Technology Australia Test
Client Reference	
Project Code	
Created Date	5/18/2022 8:48:40 AM
Created By	davidr
Summary	Workorder for Workflow: Generic Annual PD Survey
Detailed Description	Once assigned, the chosen user will see the work orde
Notes	when they log into
Status	substation360 on a UTP2
Status Date	5/18/2022 8:48:40 AM
Target Start Date	5/18/2022 10:00:41 AM
Target Completion Date	5/20/2022 5:00:41 PM
Work Order Type	

Location And Workflow	
Substation	Switch House No 1
Switchgear	Main Switchboard
Address	
Workflow	Generic Annual PD Survey
Assignment	
Assigned User	Q
Assigned Username	Erik.Lim@eatechnology.sg
Assigned Date	ke.zhang@eatechnology.com feng.sha@eatechnology.com
✓ Edit Assignment	David.Russell@eatechnology.com
Extra Details	
No extra details entered.	

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≣	EA Technology Australia Test 🗸						
*	+ New Work Order	ssignments	Q Search				B
,	Work Order Number $\uparrow\downarrow$	Substation $\uparrow\downarrow$	Target Start Date ↑↓	Target Completion Date $\uparrow\downarrow$	Status ↑↓	AssignedTo ↑↓	Actions
			Start date Filter	Completion date Filter	Status Filter 🗸 🗸		
	101133	Switch House No 1	5/18/2022 10:00:41 AM	5/20/2022 5:00:41 PM	ASSIGNED	davidr	0
- b	101132	Switch House No 1	5/17/2022 12:00:48 PM	5/18/2022 5:00:48 PM	ASSIGNED	davidr	Ø
	101131	Sengkang East	5/26/2022 7:57:52 AM	5/27/2022 7:57:52 AM	READY		0
	101130	Sengkang East	5/4/2022 7:54:41 AM	5/6/2022 7:54:41 AM	READY		0
	101129	Sengkang East	5/5/2022 7:52:52 AM	5/6/2022 7:52:52 AM	READY		Ο
	101128	AMK 66kV	6/24/2022 7:47:44 AM	6/30/2022 7:47:45 AM	ASSIGNED	erikl	0
	101127	AMK 66kV	4/29/2022 4:27:12 AM	4/30/2022 4:27:12 AM	ASSIGNED	stevenl	0
	101126	Sengkang East	4/30/2022 2:55:42 AM	5/1/2022 2:55:42 AM	ASSIGNED	yuenw	0
	101125	318 Jurong East st 31	4/28/2022 8:36:13 AM	4/29/2022 8:36:13 AM	ASSIGNED	stevenl	0
	101124	Punggol Plaza	4/28/2022 8:22:02 AM	4/29/2022 8:22:02 AM	COMPLETE		0
	101071	1 Woodlands Road	6/11/2022 8:49:21 AM	6/24/2022 8:49:21 AM	COMPLETE		0
	101070	Punggol Plaza	4/1/2022 8:37:56 AM	4/7/2022 8:37:56 AM	COMPLETE		0

Field Data Collection



- Work Order sent to Field Staff via WiFi Connection
- Field Staff Undertake Survey using Guided Mode
- Completed Survey Data Returned via WiFi Connection



On first login, username and password will need to be entered. Every subsequent login will only require a pin.

Remember password as it will be needed to log in to a new UTP2.

₽ 3 49.95Hz 1 5:45		50.00Hz 15:45	₽	° 49.93Hz
GarethD	Workorde	r Details	Workorder	Details
Switch House No 1 -	Switch Ho	use No 1	Switch Hou	se No 1
	Job No		Description Survery	12 Month
	Description	12 Month	Start Date	2022-07-05
	Start Date	2022-07-05	Completion Date	2022-12-31
	Completion Date	2022-12-31	Status	Ready
			Show Addres	ss Details >
	Status	Ready	Hide Extra	Details 🗸
	Show Addre	ess Details >	Contact: John Davis	
	Show Extra	a Details 🔷 >	Mobile: 079000000	
× 🗘 🗸	◆	\checkmark	1	✓

.	중 50.01Hz ■15:47 Job	Subs	² 49.96Hz == 15:47 tation	Switch	50.00Hz === 15:48 ngear
Job Number Engineer Name	EA1234 GDevine	Substation Name Substation Type Cable Naming	Switch House No 1 Indoor L1/L2/L3	Manufacturer Switchgear Type Installation Date Rated Voltage Operating Voltage Busbar Insulation	ABB MNS/BS 2016-07-05 13.8kV 11kV SF6

L	Site Se	49.91Hz 16:34 curity
Site Secure?		Yes
		\checkmark

Condit	49.91Hz 16:35
Background Metal (dB) Background	4dB
Metal (PPC)	0.00PPC
Background Air (dB)	4dB
Background Air (PPC)	0.00PPC
Temperature (°C)	
Humidity (%RH)	
State of Building	
Vegetation	1







₽		0.08Hz
Filter - All	Measuremer	nts
FDR 14 Circuit Br	eaker	TEV 4dB
BUS SECT Circuit Br	ION 1 eaker	TEV Skipped
AUX SUPF Circuit Br	PLY BUS A eaker	TEV
FDR A Circuit Br	eaker	TEV
~		







Complete Work Order

			Work Orders			
Customer EA Technology Australia Test 💉	~					
+ New Work Order	dit Assignments	Q Search				ខ
Work Order Number ↑↓	Substation $\uparrow\downarrow$	Target Start Date $\uparrow\downarrow$	Target Completion Date $\uparrow\downarrow$	Status ↑↓	AssignedTo	Actions
		Start date Filter	Completion date Filter	Status Filter 🗸 🗸		
01133	Switch House No 1	5/18/2022 10:00:41 AM	5/20/2022 5:00:41 PM	COMPLETE		
01132	Switch House No 1	5/17/2022 12:00:48 PM	5/18/2022 5:00:48 PM	ASSIGNED	davidr	0
01131	Sengkang East	5/26/2022 7:57:52 AM	5/27/2022 7:57:52 AM	READY		0
01130	Sengkang East	5/4/2022 7:54:41 AM	5/6/2022 7:54:41 AM	READY		Ø
01129	Sengkang East	5/5/2022 7:52:52 AM	5/6/2022 7:52:52 AM	READY		Ø
01128	AMK 66kV	6/24/2022 7:47:44 AM	6/30/2022 7:47:45 AM	ASSIGNED	erikl	Ø
01127	AMK 66kV	4/29/2022 4:27:12 AM	4/30/2022 4:27:12 AM	ASSIGNED	stevenl	◙
01126	Sengkang East	4/30/2022 2:55:42 AM	5/1/2022 2:55:42 AM	ASSIGNED	yuenw	•
101125	318 Jurong East st 31	4/28/2022 8:36:13 AM	4/29/2022 8:36:13 AM	ASSIGNED	stevenl	Ο

Complete Work Order

A Home / B Work Order List / Work Order - 100009

Work Order Details	
Customer	US Managed Survey Demo
Client Reference	1
Project Code	2468
Created Date	7/11/2022 8:51:32 AM
Created By	DJacobsen
Summary	Training
Detailed Description	First Work Order
Notes	
Status	COMPLETE
Status Date	7/11/2022 12:13:02 PM
Completed By	Derek.Jacobsen@eatechnologyusa.com
Target Start Date	7/11/2022 8:50:29 AM
Target Completion Date	7/11/2022 10:50:29 AM
Work Order Type	

		View Results
Location and Workflow		
Substation	US Demo	
Switchgear	Switchgear 1	
Address	400 Morris Ave Denville NJ 07834 US	
Workflow	Training Workflow	
Assignment		
Assigned User	Not currently assigned	
Assigned Username	Not currently assigned	
Assigned Date		
Extra Details		
Entry	Say Hi	

Welcome to Managed Surveys

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T HV Substations

View, update and create H Substations







Viewing Results

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Managed	Surveys									
🗏 💣 Home / 🗠 Resu	lts List									
ALL RESULTS	ALL RESULTS MY PARTIAL RESULTS									
Customer: EA Teo	chnology Australia Test 🗸 🗸									
â Submit Result		Q 5	Search					G		
Overall Status ↑↓	Result Date ↓ ₹			Substation	¢↓			Actions		
ن	Result date Filter									
GREEN	10/06/2022 10:18:37	Results with no indications of F	⊃D	Capenhurst 3	3 panel			Ø		
GREEN	28/04/2022 08:35:53			Punggol Plaz	za			Ø		
NONE	28/04/2022 08:27:17	Results with no measurements	5	1 Woodlands	s Road			Ø		
GREEN	14/04/2022 11:05:49			D				Ø		
AMBER	14/04/2022 10:37:24	Results with indications of mild	d PD	T9207 Subst	ation A			Ø		
RED	14/04/2022 10:30:25	Results with indications of high	ר PD	E				Ø		
GREEN	14/04/2022 10:29:14			G				Ø		
AMBER	14/04/2022 09:12:07			Punggol Plaz	za 2			Ø		
RED	14/04/2022 08:59:26			Punggol Plaz	za			Ø		
os://managedsurveys.sub360test.co.uk	14/04/2022 08:49:42			511 Bedok N	lorth Ave 2			Ø		

Viewing Results

CC	Managed Surveys		
≡	Ŀ	⊻ Results	
* 7	ALL RESULTS MY PARTIAL RESULTS		
.	Customer. EA Technology Australia Test 🗸		
	Submit Result	earch	C
ወ	Result Date ↓₹	Substation ↑↓	Actions
	Result date Filter		

All Results

 All results for which your login has access, ordered by substation
 Data collected by your login where data collected matched the details held in substation 360
 Data collected by your login where site details do not match those in Substation 360
 e.g. new substation, additional panels

Submit Result – Ability to upload result zip file from media

Viewing Results

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Installation Date

Result - Switch House No1 - 3/5/2020 10:07:19 AM

Result Overview	
Result Date	3/5/2020 10:07:19 AM
Job Number	
Engineer Name	ВМ
Substation	
Substation Name	Switch House No1
Substation Type	Indoor
Cable naming	Red/White/Blue
Media	Ō
Switchgear	
Manufacturer	English Electric
Туре	OLX OCB

1964/01/01

Measurements	S						
12	13	14	15	16	17	18	
⁻ DR 2B	FDR 3B	FDR 4	FDR 6	FDR B	AUX SUPPLY BUS B	FDR 11	F
٥	٥	٥	٥	٥	Ō	٥	
#							\$ \$
3#						<i>¥</i>	
		J.		1			



TEV Measurement

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Compare Previous Results

TEV Measurement





Viewing Results - Ultrasonic

_	Result Date	7/14/2020 9:38:41 AM
	Job Number	J001387
	Engineer Name	BM
Work	orderubstation	
	Substation Name	SUB123
	Substation Type	Cabinet
	Cable naming	Red/White/Blue
	Media	Ō
	Switchgear	
	Manufacturer	ABB
	Туре	Unigear
	Installation Date	
	Rated Voltage (kV)	12
	Operating Voltage (kV)	11

1	2	3	4	5	6	7
11kV Incomer	11kV FDR 1 CB 3.1 Longwall	11kV FDR 2 CB 3.2 SUB124	11kV FDR 3 CB 3.3 SPARE	11kV FDR 4 CB 3.4 SPARE	Main Tx	11kV 415V Aux Tx
Ō	٥	Ō	٥	٥		٥
3						
1						
						Ψ

Viewing Results - Ultrasonic

UltraSonic Measurement

E Field

Phase Reference Source

PHASE RESOLVED HISTORY AUDIO FILES Measurement Overview ≡ Panel Number 6 Heterodyned Ultrasonic 0:00 / 0:09 • Panel Name Main Tx Cables Component Sub Location Cable 1 - Red Insulation Switch Position Closed Aph bushing corona at top. No Comments concern UltraSonic Measurement Measurement (dBµV) 31 Ultrasonic Classification PD Ultrasonic Accessory UltraDish Classification Certainty (%) 87 Phase Reference Locked True

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Viewing Results – Cable PD

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Result Overview	Measurements				
Result Date 2/15/2022 4:38:17 AM	Panel Number	1	2	3	4
Job Number	Panel Name	Incomer	Feeder A	Feeder B	Feeder C
Engineer Name	Media	٥		٥	٥
Substation					
Substation Name Demo A	Cables				
Substation Type Indoor					
Cable naming Red/White/Blue					
Media	Cable Box	1	1	1	1
Switchgear	CT Chamber				
Manufacturer	VT Chamber	ţ.	1	1	1
Туре	Upper Busbars				
Installation Date	Lower Busbars				

Viewing Results – Cable PD

Cable PD Measurement

Cable PD Measurement

Measurement (pC)

Measurement (PPC)

Filter Name

 Measurement Overview

 Panel Number
 1

 Panel Name
 George St

 Component
 Cables

 Sub Location
 Cable 1, Phase 2

 Insulation
 XLPE

 Switch Position
 Closed

 Comments
 Vertice

122

0

No Filter



• < 1 • 1 < 5 • 5 < 8 • 8 < 10

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Close

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Viewing Results - UHF

≡	Result Date	7/14/2020 9:38:41 AM	1
*	Job Number	J001387	
•	Engineer Name	ВМ	
· ·			
Ē	Work Orders		
2	Substation Name	SUB123	
U	Substation Type	Cabinet	
	Cable naming	Red/White/Blue	
	Media	Ø	3
	Switchgear		
	Manufacturer	ABB	
	Туре	Unigear	
	Installation Date		
	Rated Voltage (kV)	12	
	Operating Voltage (kV)	11	

1	2	3	4	5	6	7
11kV Incomer	11kV FDR 1 CB 3.1 Longwall	11kV FDR 2 CB 3.2 SUB124	11kV FDR 3 CB 3.3 SPARE	11kV FDR 4 CB 3.4 SPARE	Main Tx	11kV 415V Aux Tx
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Viewing Results - UHF

UHF Measurement

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Measurement Overview		PHASE RE	SOLVED	WAVEFORMS	HISTOGRAM	HISTORY	AUDIO FILES	
Panel Number	7	900						
Panel Name	11kV 415V Aux Tx	800				1.1		
Component	Lower Busbars	700						
Insulation								
Switch Position	Closed							
Comments	Under Aux Tx							
UHF Measurement								
Measurement (dBm)	-59							
Gain (dB)	40							
Frequency (MHz)	800							
Baseline (dBm)	-102							
Wideband Mode	False							Close
Phase Reference Locked	True							
Phase Reference Source	Manual							

Viewing Results - Media

≡	Result Date	7/14/2020 9:38:41 AM	
*	Job Number	J001387	
≁ ₹.	Engineer Name	ВМ	11kV
Ê .	ork Orderin Substation		
<u>~</u>	Substation Name	SUB123	
ወ	Substation Type	Cabinet	
	Cable naming	Red/White/Blue	
	Media		3
	Switchgear		
	Manufacturer	ABB	
	Туре	Unigear	
	Installation Date		
	Rated Voltage (kV)	12	
	Operating Voltage (kV)	11	

1	2	3	4	5	6	7
11kV Incomer	11kV FDR 1 CB 3.1 Longwall	11kV FDR 2 CB 3.2 SUB124	11kV FDR 3 CB 3.3 SPARE	11kV FDR 4 CB 3.4 SPARE	Main Tx	11kV 415V Aux Tx
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						■

Viewing Results - Media





Substation 1/5/2021 7 34 18 PM Substation photo I took...

Media





Main Tx 7/14/2020 9:57:32 AM

Results – Download

TEV Measurement

Insulation



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Thank you



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