

Date: 17/06/2024

DRIVE MECHANISM AUTOMATED TEST

Time: _____am

Test order details observation

Inspection Lot No:	TEXT BOX	Work Order / Unit:	TEXT BOX	Rev. No:	TEXT BOX	Date:	TEXT BOX
Serial nr:	TEXT BOX	Phase Drawing:	TEXT BOX	Rev. No:	TEXT BOX	Date:	TEXT BOX
Customer:	TEXT BOX	Schematic diagram No:	TEXT BOX	Rev. No:	TEXT BOX	Date:	TEXT BOX
Description:	TEXT BOX	END USER	TEXT BOX				
Reports/Trackers @SAP from Production:		<input type="checkbox"/> Check List <input type="checkbox"/> Trackers					
Internal painting check list availability :		<input type="checkbox"/> Yes <input type="checkbox"/> No					
Special Features if any:	<div style="border: 1px solid black; height: 20px; width: 100%; text-align: center;">TEXT BOX</div>						

Observation on Visual / Aesthetic Requirements Checks-Manual Entry

Description	Requirement As per Work order sheet	Actual Observation
Serial No		TEXT BOX
Model of DM	MA-2 <input type="checkbox"/> MA-9 <input type="checkbox"/> MA-7 <input type="checkbox"/> AMD <input type="checkbox"/>	
Verification of Name plate	1.Description 2. Motor voltage, 3. Control voltage, 4. Frequency, 5.Tr. Resistance Value 6.Year of mfg.	1. TEXT BOX 2. TEXT BOX 3. TEXT BOX 4. TEXT BOX 5. TEXT BOX 6. TEXT BOX
Schematic diagram No:		TEXT BOX
DM Paint Shade-External		TEXT BOX
DM Paint Shade-Internal		TEXT BOX
Paint Thickness		TEXT BOX
Paint Scratches/Finishing	No Scratches <input type="checkbox"/>	FS <input type="checkbox"/>

	Line Mark <input type="checkbox"/> Painting Peel Off <input type="checkbox"/> Paint Fade <input type="checkbox"/>	LS <input type="checkbox"/> RS <input type="checkbox"/> BS <input type="checkbox"/> TS <input type="checkbox"/> BS <input type="checkbox"/>
Power Voltage(motor)	380 AC /DC <input type="checkbox"/> 415 AC /DC <input type="checkbox"/> 400 AC /DC <input type="checkbox"/> 430 AC /DC <input type="checkbox"/>	
Control voltage	110VAC/DC <input type="checkbox"/> 230 VAC/DC <input type="checkbox"/>	
DM Material	MS <input type="checkbox"/> SS <input type="checkbox"/> Aluminum <input type="checkbox"/>	
DM Door Hinge	Left <input type="checkbox"/> Right <input type="checkbox"/>	
No. of Push button Holes	3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/>	
No. of ADS	<input type="text" value="TEXT BOX"/>	
Type of TPI Resistance Qty:	1 K Ohms <input type="checkbox"/> 100K Ohms <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/>	
General /Standard Requirements:		

DM counter reading Minimum 500 endurance operation before start	<input type="checkbox"/> Yes <input type="checkbox"/> No
Hand crank provided inside the DM with paint shade matching	<input type="checkbox"/> Yes <input type="checkbox"/> No
Earth bride provided b/w DM & DOOR	<input type="checkbox"/> Yes <input type="checkbox"/> No
Availability of Scheme & Pouch	<input type="checkbox"/> Yes <input type="checkbox"/> No
Availability of Hand crank with Spring dowel	<input type="checkbox"/> Yes <input type="checkbox"/> No
Function of DOOR Lock with PAD	<input type="checkbox"/> Yes <input type="checkbox"/> No
Availability of top flange shaft "o" Ring, Guard, Pouch	<input type="checkbox"/> Yes <input type="checkbox"/> No
No any spillage of wire sleeve, copper strings and dust, yellow paint and any hand written Nos are words (only printed Label)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Earth bolt provided on both directions	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gland plate matching with uniform paint	<input type="checkbox"/> Yes <input type="checkbox"/> No
Terminal block transparent protection cover provided for Stud and nut Type	<input type="checkbox"/> Yes <input type="checkbox"/> No
Push button alignment	<input type="checkbox"/> Yes <input type="checkbox"/> No
window glass & gasket seated properly	<input type="checkbox"/> Yes <input type="checkbox"/> No

White spiral sleeves provided on all the wire bunches	<input type="checkbox"/> Yes <input type="checkbox"/> No
General /Stickers/Caution/Attention Requirements:	
IPX5 sticker with QC sign	<input type="checkbox"/> Yes <input type="checkbox"/> No
HV test availability	<input type="checkbox"/> Yes <input type="checkbox"/> No
DANGER STICKER As per the Motor Voltage	<input type="checkbox"/> Yes <input type="checkbox"/> No
Ensure the Shorting Link Provided as per the SHD	<input type="checkbox"/> Yes <input type="checkbox"/> No
Rotate the hand crank and check the Raise and Lower Direction symbol	<input type="checkbox"/> Yes <input type="checkbox"/> No
Phase sequence Attention sticker	<input type="checkbox"/> Yes <input type="checkbox"/> No
Proximity wiring shorting stickers	<input type="checkbox"/> Yes <input type="checkbox"/> No
Hand Revolution sticker	<input type="checkbox"/> Yes <input type="checkbox"/> No
CAM Switch stickers as per legend	<input type="checkbox"/> Yes <input type="checkbox"/> No
ADS wire stickers/Labels	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electrical Limit switch stickers	<input type="checkbox"/> Yes <input type="checkbox"/> No
Mechanical Limit switch stickers	<input type="checkbox"/> Yes <input type="checkbox"/> No
Earthling sticker at both the sides near earth bolt	<input type="checkbox"/> Yes <input type="checkbox"/> No
Legend EBOM Requirements:	

Description	Reference from Legend	Actual Observation with Label identification
Raise Contactor	<div>Legend</div> <div>Siemens <input type="checkbox"/> Schneider-make 415 V AC/DC <input type="checkbox"/> 220 V AC/DC <input type="checkbox"/> 110 V AC/DC- Volatge</div> <div>Legend</div> <div>Siemens <input type="checkbox"/> Schneider-make 415 V AC/DC <input type="checkbox"/> 220 V AC/DC <input type="checkbox"/> 110 V AC/DC- Volatge</div> <div>Legend</div> <div>Siemens <input type="checkbox"/> Schneider-make 415 V AC/DC <input type="checkbox"/> 220 V AC/DC <input type="checkbox"/> 110 V AC/DC- Volatge</div>	
Lower contactor	<div>Legend</div> <div>Siemens <input type="checkbox"/> Schneider-make 415 V AC/DC <input type="checkbox"/> 220 V AC/DC <input type="checkbox"/> 110 V AC/DC- Volatge</div>	

	<div>Legend</div> <div>Siemens Schneider-make 415 V AC/DC □ 220 V AC/DC □ 110 V AC/DC- Volatge</div> <div>Legend</div> <div>Siemens Schneider-make 415 V AC/DC □ 220 V AC/DC □ 110 V AC/DC- Volatge</div>	
Step by step contactor	<div>Legend</div> <div>Siemens Schneider-make 415 V AC/DC □ 220 V AC/DC □ 110 V AC/DC- Volatge</div> <div>Legend</div> <div>Siemens Schneider-make 415 V AC/DC □ 220 V AC/DC □ 110 V AC/DC- Volatge</div> <div>Legend</div> <div>Siemens Schneider-make 415 V AC/DC □ 220 V AC/DC □ 110 V AC/DC- Volatge</div> <div>Legend</div> <div>Siemens Schneider-make 415 V AC/DC □ 220 V AC/DC □ 110 V AC/DC- Volatge</div>	
Breaking contactor	<div>Legend</div> <div>Siemens Schneider-Make 220 V AC/DC □ 110 V AC/DC-Voltage</div>	
Additional contactor	AC-1 □ AC-II □ K6□K7□SHC1□ SHC2□ AC-5-Type or <div>TEXT BOX</div>	
Motor protective relay	Siemens□ Schneider- Make 1.6-2.4A□2.4-4A □ 4-6A □ 6-10 A- Current Rating	Set Value <div>TEXT BOX</div>
Shunt trip coil	Siemens□ Schneider- Make 220 V AC/DC □ 110 V AC/DC- Voltage	
TDR On / Off delay	EAPL □ Siemens□ Schneider- Make 1 No□ 2 No□- Qty	Set Value <div>TEXT BOX</div>
Heater switch	Kaycee - SX 112 □ SX 114A □ SX 114C □	

	Salzer – 61197- Make	
Local/Remote switch	Kaycee SX114A □ SX114C□SX126A □ SX1410A □ Salzer – 61039- Make	
Motor	Remi □BBL □Rotomac□Dharani□KEC - Make 0.5 HP □ 0.75 HP □ 1 HP □ 1.5HP – Power 380V AC □ 400V AC□415V AC 110V DC□ 220V DC - Voltage	Sl. No: <input type="text" value="TEXT BOX"/>
Aux. supply Transformer	Ampitron □ Ashoka □Saraswathi□Quantum- Make Primary Coil.- 230V □ 380V□400V □ 415V □ 430V Secondary coil- 55-0-55V □ 110-0-110V □	Sl No: <input type="text" value="TEXT BOX"/>
Heater	Pyros□Ashoka□RKH□Sai EGO - Make 230VAC □ 110V AC - Voltage 40W□80W□100W - Wattage	Sl. No: <input type="text" value="TEXT BOX"/>
Thermostat	Sai EGO 230 VAC □ Sunvic230 VAC □ Grish EGO 230 VAC- Make	
Fuse/Link	Copper busman□ Siemens- Make Qty <input type="text"/>	
Terminal blocks-1	Elmex, Connect well- Make CAT-M3□ CAT-M4 □ CBT- M4 □ KLTD4□ STH4□ CSTSB3 □ CSTSB4 □ CST 4UN- Part No.	TB 1 <input type="text" value="TEXT BOX"/> No's
Terminal blocks-2	Elmex, Connect well- Make CAT-M3□ CAT-M4 □ CBT- M4 □ KLTD4□ STH4□ CSTSB3 □ CSTSB4 □ CST 4UN- Part No.	TB 2 <input type="text" value="TEXT BOX"/> No's
Terminal blocks-3	Elmex, Connect well- Make CAT-M3□ CAT-M4 □ CBT- M4 □ KLTD4□ STH4□ CSTSB3 □ CSTSB4 □ CST 4UN- Part No.	TB 3 - <input type="text" value="TEXT BOX"/> No's
Push button Raise/Lower	Yellow □ white□ Spring Return - Type Siemens□ Technic –Other- Make	
Trippush button	Stay put □ Red □ Transparent Red- Type	

MCB 4 Pole	Siemens <input type="checkbox"/> ABB <input type="checkbox"/> Legrand <input type="checkbox"/> Schneider-Make 32 A <input type="checkbox"/> 16 A <input type="checkbox"/> 10 A <input type="checkbox"/> 6 A <input type="checkbox"/> 4 A <input type="checkbox"/> 2 A – Current Rating	
MCB 3 Pole	Siemens <input type="checkbox"/> ABB <input type="checkbox"/> Legrand <input type="checkbox"/> Schneider-Make 32 A <input type="checkbox"/> 16 A <input type="checkbox"/> 10 A <input type="checkbox"/> 6 A <input type="checkbox"/> 4 A <input type="checkbox"/> 2 A – Current Rating	
MCB 2 Pole	Siemens <input type="checkbox"/> ABB <input type="checkbox"/> Legrand <input type="checkbox"/> Schneider-Make 32 A <input type="checkbox"/> 16 A <input type="checkbox"/> 10 A <input type="checkbox"/> 6 A <input type="checkbox"/> 4 A <input type="checkbox"/> 2 A – Current Rating	
MCB 1 Pole	Siemens <input type="checkbox"/> ABB <input type="checkbox"/> Legrand <input type="checkbox"/> Schneider-Make 32 A <input type="checkbox"/> 16 A <input type="checkbox"/> 10 A <input type="checkbox"/> 6 A <input type="checkbox"/> 4 A <input type="checkbox"/> 2 A – Current Rating	
1pole Add on block for MCB	Siemens <input type="checkbox"/> ABB <input type="checkbox"/> Legrand <input type="checkbox"/> Schneider-Make 32 A <input type="checkbox"/> 16 A <input type="checkbox"/> 10 A <input type="checkbox"/> 6 A <input type="checkbox"/> 4 A <input type="checkbox"/> 2 A – Current Rating	
TCSIS	Salzer 61197 <input type="checkbox"/> Kaycee SX145 - Make	
Single Phase preventer	Minilec <input type="checkbox"/> GIC (SM301 series)- Make Auxiliary Supply - 415V <input type="checkbox"/> 230V AC -Voltage UV <input type="text"/> OV <input type="text"/> Timer <input type="text"/>	
illumination Lamp	CFL <input type="checkbox"/> LED- Iype Philips <input type="checkbox"/> Bajaj <input type="checkbox"/> Syska-Make 4W <input type="checkbox"/> 5W <input type="checkbox"/> 9W <input type="checkbox"/> 12W- wattage	
Trip Lamp/Signal Lamp	110V <input type="checkbox"/> 230V AC - Voltage	
Plug & Socket	Anchor <input type="checkbox"/> Legrand <input type="checkbox"/> - Make 5 A <input type="checkbox"/> 15 A <input type="checkbox"/> - Current Rating	

Performance and Application test Requirements:

1	Perform IR test before HV test and Note down the value	IR Test	
2	HV test conducted for 2KV withstood for 60seconds	HV TEST	<input type="checkbox"/> Yes <input type="checkbox"/> No
3	Perform IR test after HV test and Note down the value	IR Test	
4.	Insert hand crank and check the manual revolution on both direction two taps- 33Rev	Revolution	<input type="checkbox"/> Yes <input type="checkbox"/> No
5	Ensure Control and power voltage as per the schematic diagram	Voltage	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	Insert the Hand crank in S8 or B8 switch give pulse via S1 or S2 Raise or Lower -	HC safety switch	<input type="checkbox"/> Yes <input type="checkbox"/> No

	Motor should not Run		
7	Check the center position of tap no of Position indicator wheel w.r.t Tap no in TPI from end to end position.	TPI	<input type="checkbox"/> Yes <input type="checkbox"/> No
8	Run the DM at Local manual mode for one complete cycle and check the tap no with TPI meter.	TPI	<input type="checkbox"/> Yes <input type="checkbox"/> No
9	Perform the test- Single pulse Via Push button Raise or Lower Motor should run in any one position i.e.: Raise means raise direction, Lower means Lower direction.	Pulse	<input type="checkbox"/> Yes <input type="checkbox"/> No
10	Continuous Pulse Via push button Raise or Lower /Multiple Pulse Via push button Raise or Lower -In all the condition Motor should run in any one position i.e.: Raise means raise direction, Lower means Lower direction.	Pulse	<input type="checkbox"/> Yes <input type="checkbox"/> No
11	Press and hold the Push button either raise or Lower motor should operate and stop, no continuous operation occurrence should happen.	Pulse	<input type="checkbox"/> Yes <input type="checkbox"/> No
12	Perform Phase sequence test -Change the Motor Phase sequence and activate the Raise or Lower Motor will start up & MPR will tripped @ 3 to 4 division. Then change the phase sequence as per initial	Phase sequence	<input type="checkbox"/> Yes <input type="checkbox"/> No
13	Perform the test- Single pulse Via Raise or Lower Trip the LEPB(MPR) manually during the operations Give continuous pulse (S1) in opposite direction Release MPR-In this condition motor must complete execution of an interrupted switching operation on the same direction	Counter pulse	<input type="checkbox"/> Yes <input type="checkbox"/> No
14	Perform the test - Pulse to Lower End tap »» <input type="checkbox"/> Pulse to Lower push button switch, Motor and contactor should not pick up and energized. This confirms the electrical Limit at Lower direction.	Electrical Limit-Lower	<input type="checkbox"/> Yes <input type="checkbox"/> No
15	Perform the test - Use Hand crank rotate in Lower direction up to Mechanical Limit end stopper, and remove the hand crank No contactor should energize.	Mechanical End Limit	<input type="checkbox"/> Yes <input type="checkbox"/> No
16	Perform the test- Pulse to Raise End tap -Pulse to Raise push button switch, Motor and contactor should not pick up and energized. This confirms the electrical Limit at Raise direction.	Electrical Limit-Raise	<input type="checkbox"/> Yes <input type="checkbox"/> No
17	Perform the test- Use Hand crank rotate in Raise direction up to Mechanical Limit end stopper, and remove the hand crank No contactor should energize.	Mechanical End Limit	<input type="checkbox"/> Yes <input type="checkbox"/> No
18	Pulse the motor and trip (MPR) emergency push button 5 times and reset, No any abnormalities should occurs.	MPR	<input type="checkbox"/> Yes <input type="checkbox"/> No
19	Check all the TB ferrules to be matching with schematic TB List	TBs check	<input type="checkbox"/> Yes <input type="checkbox"/> No

20	All the Lugs should be uniformly crimped with same color code Except 1.5 Sq.mm wire	TBs check	<input type="checkbox"/> Yes <input type="checkbox"/> No
21	Check the functionality of DOOR Limit Switch by closing the door	Door switch	<input type="checkbox"/> Yes <input type="checkbox"/> No
22	Mechanical end limit revolution	Raise	Lower

CAM Sequence test Requirements:

Raise Directions-CAM Sequence-Before end tap

Switch	Switch Red DIV status	Switch Sequence Status	Activated Division	Acceptance criteria
S14 (3-3.5)	Close-C-NC	Open-C-NC	<input type="text" value="TEXT BOX"/>	Diff b/w S14 and S13 more than 0.25Div
S13 (3.5-4)	Close-C-NC	Open-C-NC	<input type="text" value="TEXT BOX"/>	
S6-Control (28-30)	Close-C- NC	Open-C-NC	<input type="text" value="TEXT BOX"/>	
S14 (31.5-32)		Close-C-NC	<input type="text" value="TEXT BOX"/>	Diff b/w S13 & S6-Power more than 0.25div
S13 (31.5-32)		Close-C-NC	<input type="text" value="TEXT BOX"/>	
S6-Power (33-33.5)	Close-C- NC	Open-C-NC	<input type="text" value="TEXT BOX"/>	

Lower Directions-CAM Sequence-Before end tap (2 to 1)				
Switch	Switch Red DIV status	Switch Sequence Status	Activated Division	Acceptance criteria
S12 (3-3.5)	Close-C-NC	Open-C-NC	<input type="text" value="TEXT BOX"/>	Diff b/w S12 & S13 more than 0.25Div
S13 (3.5-4)	Close-C-NC	Open-C-NC	<input type="text" value="TEXT BOX"/>	
S7-Control (28-30)	Close-C- NC	Open-C-NC	<input type="text" value="TEXT BOX"/>	
S12 (31.5-32)		Close-C-NC	<input type="text" value="TEXT BOX"/>	
S13		Close-C-NC	<input type="text" value="TEXT BOX"/>	Diff b/w S13 & S7 -Power more than 0.25div
S7-Power (33-33.5)	Close-C- NC	Open-C-NC	<input type="text" value="TEXT BOX"/>	

Application test Requirements				
1	Perform Under voltage test for one complete cycle	UV	<input type="text" value="TEXT BOX"/>	V
2	Perform Over voltage test for one complete cycle	OV	<input type="text" value="TEXT BOX"/>	V
3	Perform Normal voltage test for 8 complete cycle of operation	NV	<input type="text" value="TEXT BOX"/>	V

OLTC DRIVE MECHANISM AUTOMATED TEST

Serial Number

A12345

Test Type

Variant 1-5-9 ▼

Number of Cycles

12

Under Voltage Cycles

1

Nominal Voltage Cycles

8

High Voltage Cycles

8

Maximum Tap Position

17

Number of Tap Position
Indicators

1

No. Upper Limit
Reached Input

1

No. Lower Limit
Reached Input

1

No. Tap change
delay/Struck up Indication

1

No. Tap Change in
progress indications

1

OLTC DRIVE MECHANISM AUTOMATED TEST

Serial Number: A12345

Test Type: Variant 1-5-9

Test Voltage: Nominal

Cycle No: 1

Maximum Tap:
Positions 17

Test Status: OFF

START

Pause

Restart

12

CURRENT TAP
POSITION

- ☐ 1. Upper Limit Reached indication 1
- ☐ 2. Upper Limit Reached indication 2
- ☐ 3. Lower Limit Reached indication 1
- ☐ 4. Lower Limit Reached indication 2
- ☐ 5. MPR Trip Indication 1
- ☐ 6. MPR Trip Indication 2
- ☐ 7. Tap change in progress indications 1
- ☐ 8. Tap change in progress indications 2
- ☐ 9. Tap change delay/struck up 1
- ☐ 10. Tap change delay/struck up 1
- ☐ 11. Local indication
- ☐ 12. Remote indication
- ☐ 13. ODD indication
- ☐ 14. EVEN indication
- ☐ 15. SPP Potential free Indication
- ☐ 16. Control supply healthy indication
- ☐ 17. Control supply Unhealthy indication
- ☐ 18. Power supply 415V Healthy condition
- ☐ 19. Power supply 415V Unhealthy
- ☐ 20. AC Supply Fail
- ☐ 21. ILC (Interlocking) circuit indications
- ☐ 22. Proximity switch healthy indications
- ☐ 23. Tap changer healthy monitoring
- ☐ 24. TDR Potential free

Actual Tap Position Number	Tap Position Reading in Indicator 1	Tap Position Reading in Indicator 2	Odd/Even Indications Sequence	TPI 4-20mA Output 1	TPI 4-20mA Output 2	CCU 4 TO 20mA Output Value
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

16						
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28						
29						
30						
31						
32						
33						
34						
35						

CAM Switch timing sequence measurement

FAC as follows For LOWER-Check through Oscilloscope

SL.No	Description	FAC	Observed Value
1	$O_{MD} \cdot C_{S12}$	620 to 775ms	
2	$O_{MD} \cdot C_{S13}$	656 to 853ms	
3	$O_{MD} \cdot C_{LLS}$	4.5 to 5.0 sec	
4	$O_{MD} \cdot O_{S12}$	5.1 to 5.3 sec	
5	$C_{S12} \cdot C_{S13}$	36 to 78ms	
6	$O_{S12} \cdot O_{S13}$	Min 10ms	

FAC as follows For RAISE-Check through Oscilloscope

SL.No	Description	FAC	Observed Value
1	$O_{MD} \cdot C_{S14}$	620 to 775ms	
2	$O_{MD} \cdot C_{S13}$	656 to 853ms	
3	$O_{MD} \cdot C_{RLS}(\text{Control})$	4.5 to 5.0 sec	
4	$O_{MD} \cdot O_{S14}$	5.1 to 5.3 sec	
5	$C_{S14} \cdot C_{S13}$	36 to 78ms	
6	$O_{S14} \cdot O_{S13}$	Min 10ms	

Potential Free Indication test Requirements:		
1	Upper Limit Reached indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
2	Upper Limit Reached indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
3	Lower Limit Reached indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Lower Limit Reached indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
5	MPR Trip Indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6	MPR Trip Indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7	Tap change in progress indications	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
8	Tap change in progress indications	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
9	Tap change delay/struck up indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
10	Tap change delay/struck up indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
11	Local indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
12	Remote indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
13	ODD indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
14	Even indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
15	SPP Potential free Indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
16	Control supply healthy indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
17	Control supply Unhealthy indications	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
18	Power supply 415V Healthy condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
19	Power supply 415V Unhealthy condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
20	AC Supply Fail	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
21	ILC (Interlocking)circuit indications	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
22	Proximity switch healthy indications	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
23	Tap changer healthy monitoring indications	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
24	Hand crank potential free indications	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
25	TDR Potential free	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Start recording of ADS potential free indication checks-Potential Free

Actual tap	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
LED Indication	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Actual tap	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
LED Indication	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

1	De energize all the circuits and remove the wire and re tight all the TBs		<input type="checkbox"/> Yes <input type="checkbox"/> No
2	Provide transparent cover on TBs		<input type="checkbox"/> Yes <input type="checkbox"/> No

Popup

CAUTION

Insert Hand Crank!!

INSERTED

SKIP

MESSAGE

TEST COMPLETED SUCCESSFULLY

VIEW

GENERATE TEST REPORT

WARNING!!

TAP CHANGE DELAY/ STUCKUP

ABORT TEST

CONTINUE TEST

TESTING..

START ADS LED TESTING

START

SKIP

INFO

1. CHANGE THE VOLTAGE TO NOMINAL

2. CHANGE SWITCH TPI1 TO TPI2

DONE

Drop Down List

1. Variant 1-5-9
2. Variant 1-9b- 17
3. Variant 1-9- 17
4. Variant 1-11b- 21
5. Variant 1-14b- 27
6. Variant 1-17b- 35