



Waukesha® UZD® LTC Major Inspection Form

TRANSFORMER DESCRIPTION	INFORMATION	NOTES/EXPLANATIONS
Manufacturer		
Year Manufactured		
Serial Number		
High Voltage		
Low Voltage		
MVA		
Substation Name		
Transformer Designation		
INSPECTION DATA		
Date of Inspection		
Inspected by		
ANNUAL INSPECTION		
Annual Inspection Requirements (see Annual Inspection Form)	<input type="checkbox"/> Completed	
SWITCH COMPARTMENT (LIQUID FILLED) TAP SELECTOR SWITCHES		
Measure Remaining Arcing Tip on Stationary Tap Selector Switch Contacts (54 Contacts)	PHASE A _____ Average in mm _____ Worst in mm _____ Position	
	PHASE B _____ Average in mm _____ Worst in mm _____ Position	
	PHASE C _____ Average in mm _____ Worst in mm _____ Position	
Gap between Tap Selector Switch Roller Contacts (18 Gaps)	PHASE A _____ Average in mm _____ Worst in mm _____ Position	
	PHASE B _____ Average in mm _____ Worst in mm _____ Position	
	PHASE C _____ Average in mm _____ Worst in mm _____ Position	
Measure Roller Diameters (36 Rollers)	PHASE A _____ Average in mm _____ Worst in mm _____ Position	
	PHASE B _____ Average in mm _____ Worst in mm _____ Position	
	PHASE C _____ Average in mm _____ Worst in mm _____ Position	
Confirm Rollers Turn Freely	<input type="checkbox"/> Y <input type="checkbox"/> N	
Check Roller Contact Pressure (18 Rollers)	PHASE A _____ Average in lbs _____ Worst in lbs _____ Position	
	PHASE B _____ Average in lbs _____ Worst in lbs _____ Position	
	PHASE C _____ Average in lbs _____ Worst in lbs _____ Position	
Check Main Current Carrying Tap Selector Switch Contact Pressure	PHASE A _____ Average in lbs _____ Worst in lbs _____ Position	
	PHASE B _____ Average in lbs _____ Worst in lbs _____ Position	
	PHASE C _____ Average in lbs _____ Worst in lbs _____ Position	
Check Contact Pressure of Slip Ring (Bow-Tie) Contacts	A__ lbs B__ lbs C__ lbs A__ lbs B__ lbs C__ lbs	
Check Proper Contact Alignment in All Tap Positions in Both Directions and Adjust, if necessary	<input type="checkbox"/> OK <input type="checkbox"/> Adjustments Made	
Check Transition Resistor	A__ Ω B__ Ω C__ Ω	
	A__ Ω B__ Ω C__ Ω	
Contact Resistance Measurement (hub of bow-tie to fixed contact)	A__ μΩ B__ μΩ C__ μΩ	

continued on next page...

SWITCH COMPARTMENT (LIQUID FILLED) TAP SELECTOR SWITCHES <i>continued</i>	INFORMATION	NOTES/EXPLANATIONS
Were Any Contacts Replaced (include photos)?	<input type="checkbox"/> Y <input type="checkbox"/> N	Which ones:
Liquid Level Gauge and Contact Functioning	Trips at correct level? <input type="checkbox"/> Y <input type="checkbox"/> N	
Check for Leaks	<input type="checkbox"/> No Leaks <input type="checkbox"/> Leaks	Location:
All Protective Devices Functioning Properly	<input type="checkbox"/> Y <input type="checkbox"/> N	If no, which devices:
REVERSING CHANGE OVER SELECTOR (REVERSING) SWITCHES		
Check Contact Pressure of Reversing Switches (6)	A ___ lbs B ___ lbs C ___ lbs A ___ lbs B ___ lbs C ___ lbs	
Check Contact Pressure of Slip Ring (Bow-Tie) Contacts	A ___ lbs B ___ lbs C ___ lbs A ___ lbs B ___ lbs C ___ lbs	
Check Proper Contact Alignment in Both Tap Positions	<input type="checkbox"/> Good <input type="checkbox"/> Needs Adjustment	
Contact Resistance Measurement (hub of bow-tie to fixed contact)	A ___ $\mu\Omega$ B ___ $\mu\Omega$ C ___ $\mu\Omega$	
Were Any Contacts Replaced (include photos)?	<input type="checkbox"/> Y <input type="checkbox"/> N	Which ones:
SPRING DRIVE COMPARTMENT (DRY COMPARTMENT)		
Check for Leaks	<input type="checkbox"/> No Leaks <input type="checkbox"/> Leaks	Location:
Check Nylon Brake Roller for Wear and Play; Replace, if necessary	<input type="checkbox"/> OK <input type="checkbox"/> Replaced	
Verify Brake Only Engaged when Roller is in Slot and Stops within Range; Adjust Brake, if necessary	<input type="checkbox"/> OK <input type="checkbox"/> Required Adjustment	
Apply Lubrication per Field Maintenance Manual, Figure 23 (page 35)	<input type="checkbox"/> Completed	
Check Access Panel Gaskets; Replace, if necessary	<input type="checkbox"/> OK <input type="checkbox"/> Replaced	
MOTOR DRIVE MECHANISM COMPARTMENT		
Apply Lubrication in BUE Motor Drive Mechanism per Field Maintenance Manual, Figures 32–35 (pages 44–46)	<input type="checkbox"/> Completed	
Check Both Indicator Flag and Flywheel Brakes for Proper Adjustment	<input type="checkbox"/> Completed	
Check Wiring and Controls	<input type="checkbox"/> Completed	
Check Limit Switch Operation	<input type="checkbox"/> Completed	
Check Mechanical Stop Operation	<input type="checkbox"/> Completed	
GENERAL		
Describe Any Other Conditions Found or Areas of Concern (include photos)		
Oil Filled Compartment Door Gasket Replaced?	<input type="checkbox"/> Y <input type="checkbox"/> N	
Check of 90 Regulating Relay	<input type="checkbox"/> Completed	

For assistance or more information, please contact our Waukesha® Components group at 800-338-5526.

