



Apprentice Name: _____

Step 3 - Apprentice System Operator Job Competency / Demonstration Form

COMPETENCIES/SKILLS		RATING
#1	Explain inductive loads on a circuit.	
#2	Explain capacitive loads on a circuit.	
#3	Explain how VAR flow is determined and how it relates to power factor.	
#4	What are the three fundamental control requirements for a properly designed and operated power system?	
#5	Explain "Power Wheeling".	
#6	Explain the purpose of a load tap changer (LTC) and a regulator.	
#7	List the five steps that should be followed to safely bypass a voltage regulator.	
#8	What FERC? How do they relate to the power industry?	
#9	Explain what system losses are.	
#10	What are the typical losses for a rural distribution system?	
#11	Explain several ways to minimize system losses.	
#12	Review a single line diagram (supervisor selected) and show the power flow through the substation and identify the equipment that it flows through, including it's purpose.	
#13	Demonstrate your ability to read a distribution map, showing lines, poles, switches, apparatus, protection equipment and consumers.	
#14	Demonstrate your familiarity with device plant numbering using the maps available.	
#15	Explain RUS Specifications: their use, what they are based on, etc.	
#16	Explain the purpose of disconnects and switches.	
#17	Locate disconnects and switches on a single line diagram.	
#18	Ability to follow directions.	
#19	Positive attitude toward work and others.	

RATINGS:

Exceeds Expectations

Meets Expectations

Below Expectations

COMMENTS/REMARKS

I find this apprentice competent in the skills listed above and ready to advance to the next level.

Supervisor's signature: _____ Date: _____