

Apprentice Name:	

Step 3 - Apprentice System Operator Job Competency / Demonstration Form

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

RATINGS:

- 1. Exceeds Expectations
- 2. Meets Expectations
- 3. Needs Improvement

COMMENTS/REMARKS				
	I find this apprentice competent in the skills listed above and ready to advance to the next level.			
	Supervisor's signature:	_ Date:		