



Apprentice Name: _____

Step 4 - Apprentice System Operator Job Competency / Demonstration Form

COMPETENCIES/SKILLS		RATING
#1	List the four common devices that perform the basic function of a circuit breaker.	
#2	Where is information about and ratings of a circuit breaker found?	
#3	Name the four key design parameters of a circuit breaker.	
#4	Locate a circuit breaker on a single line diagram.	
#5	Describe the basic applications of circuit breakers.	
#6	What are the four main types of circuit breakers? Discuss your utilities use of each.	
#7	Explain the fundamental job of a station transformer.	
#8	What is the difference between a LTC and voltage regulator?	
#9	Describe the two applications of a voltage regulator in a substation. What does your utility do?	
#10	Where can pertinent information about a transformer be found?	
#11	Review a nameplate from one of your utilities transformers and discuss it's information. i.e. voltages, weight, oil cooling, tap settings, etc.	
#12	Explain the different methods of colling the oil in a transformer.	
#13	Discuss the types of oil preservation systems your utility has.	
#14	Explain the purpose of a surge arrestor.	
#15	Locate surge arrestors on one of your utilizes single line diagrams and describe what they are protecting.	
#16	Explain what the term "BIL" means.	
#17	Explain the purpose of a capacitor.	
#18	Discuss whether your utility has capacitors and their use if so.	
#19	Ability to follow directions.	
#20	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: _____