

PALO VERDE NUCLEAR GENERATING STATION MANUAL	PROCEDURE NO. 40AC-0ZZ13	
LICENSED OPERATOR QUALIFICATION STANDARD	REVISION 0	Page 1 of 9

FOR INFORMATION ONLY

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1.0 PURPOSE The Licensed Operator Qualification Standard provides assurance that licensed personnel have an in-plant working knowledge of major systems in the unit.

2.0 REFERENCES

NONE

3.0 DEFINITIONS AND ABBREVIATIONS

NONE

4.0 RESPONSIBILITIES

4.1 Each department manager that has personnel in the license path is to ensure that the Qualification Standard is completed prior to taking the NRC RO/SRO License Exam. Personnel presently licensed shall have their Qualification Standard completed two (2) months prior to Fuel Load. Personnel in the July 1984 license group shall have their Qualification Standard completed prior to Fuel Load.

4.2 Personnel providing check outs are responsible to ensure that personnel have the necessary system knowledge to perform their jobs prior to signing off a system.

5.0 INSTRUCTIONS

5.1 General

5.1.1 Each individual in the license pathway will receive a Qualification Standard which provides for a check off of system knowledge for those systems listed in Appendix A.

5.1.2 Each system in the standard shall be signed off by either an SRO candidate previously checked out on the system or by an individual who has passed the NRC SRO exam.

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5.1.3 Personnel conducting the checkout shall utilize any one or combination of the following evaluation methods to determine an individuals qualifications.

The methods are:

METHOD 1 Performance of routine operations such as:

- ° Swapping heat exchangers/pumps
- ° Isolating/restoring of components in a system
- ° Monitoring/adjusting system parameters
- ° Understanding of procedure content
- ° Component locations

METHOD 2 System walkdown and interviews

- ° Which evaluate design, operation, interfaces and procedural requirements.

METHOD 3 Formal training and evaluation on systems, components locations and procedure content. A copy of the training completion forms shall be attached to an individuals Appendix A.

METHOD 4 Startup operations, such as:

- ° Flushing
- ° Isolation/restoration of components in a system
- ° Pre-operational and prerequisite testing
- ° Understanding of procedure content
- ° Component locations

METHOD 5 Having completed a checkoff for a required system under the previous qualification program. A copy of the previous qualification sign off sheet shall be attached to Appendix A.

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5.2 Documentation Method

- 5.2.1 Documentation will be completed on Appendix A. The person providing the checkout will sign, date and indicate the method(s) utilized for each system checkout.
- 5.2.2 For systems completed using the formal training method a copy of the course completion record shall be attached to Appendix A.
- 5.2.3 For systems completed by the previous qualification program, a copy of the sign off sheets from the previous qualification program shall be attached to Appendix A.
- 5.2.4 The completed Qualification Standard is be sent to Training Support for retention.

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QUALIFICATION STANDARD SYSTEM
CERTIFICATION RECORD

METHODS

1. System Operation
2. System Walkdowns
3. Formal Training
4. Startup Operations
5. Previous Qualifications

SYSTEM	SIGNATURE	DATE	METHOD
Main Steam (SG)			
Main Turbine (MT)			
Condensate (CD)			
Feedwater (FW)			
Extraction Drains (ED)			
Aux Feed (AF)			
Condensate Transfer (CT)			
Reactor Coolant (RC)			
CVCS (CH)			
Safety Injection (SI)			
Blowdown (SC)			
Steam Seals (GS)			

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QUALIFICATION STANDARD SYSTEM
CERTIFICATION RECORD

SYSTEM	SIGNATURE	DATE	METHOD
Lube Oil (LO)			
H ₂ & CO ₂ (GH)			
Seal Oil (SO)			
Stator Cooling (CE)			
Air Removal (AR)			
Control Oil (CO)			
Circ Water (CW)			
Plant Cooling (PN)			
Turbine Cooling (TC)			
Nuclear Cooling (NC)			
Fuel Pool Cooling (PC)			
Essential Cooling (EW)			
Essential Spray (SP)			
Feed Pump Turbine (FT)			
Chilled Water (WC)			
Fuel Bldg HVAC (HF)			

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QUALIFICATION STANDARD SYSTEM
CERTIFICATION RECORD

SYSTEM	SIGNATURE	DATE	METHOD
Aux Bldg. HVAC (HA)			
Control Bldg. HVAC (HJ)			
Diesel Bldg. HVAC (HD)			
Ctmt Bldg. HVAC (HC)			
Essential Chilled Water (EC)			
Ctmt H ₂ Control (HP)			
Ctmt Purge (CP)			
Gaseous Radwaste (GR)			
Instrument Air (IA)			
Diesel Generator (DG)			
Diesel Fuel Oil (DF)			
Fire Protection (FP)			
Main Generation (MA)			
Voltage Regulation (MB)			
4.16KV Class Power (PB)			
Stby Generation (PE)			
480V Class Swgr (PG)			
480V Class MCC (PH)			

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QUALIFICATION STANDARD SYSTEM
CERTIFICATION RECORD

SYSTEM	SIGNATURE	DATE	METHOD
125V DC Class (PK)			
120V AC Class (PN)			
13.8KV Non-Class (NA)			
4.16KV Non-Class (N2)			
480V Non-Class Swgr (NG)			
480 Non-Class MCC (NH)			
125V DC Non-Class (NK)			
120V AC Non-Class (NN)			
120V AC Uninterrup (NQ)			
Essential Lighting (QB)			

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